

MANAGEMENT SYSTEM ASSESSMENT REPORT

VISIT DATE(S): MAY 21-25, 2007

COMPANY: BROOKHAVEN NATIONAL LABORATORY

STREET ADDRESS:

BLDG. 800, P.O. Box 5000 (EMS); 40 BROOKHAVEN AVE., BLDG. 130

(OSHMS)

CITY, STATE ZIP: UPTON, NY 11973

COUNTRY USA

FRS NUMBER: 69525, 69528

VISIT TYPE: REASSESSMENT

STANDARD: ISO 14001:2004, OHSAS 18001:1999

LEAD AUDITOR: KEN CLAYMAN IAF: 35

AUDITOR: BRIANA SPRAGUE IAF: 35

AUDITOR DAWN HENDERLIGHT IAF: 35

AUDITOR GORDON BELLEN IAF: 35

REPORT DATE: June 11, 2007

For QMS or EMS single sites and QMS corporate schemes - each site will have a separate report. QMS and EMS Campus type audits may include all sites in one report.

Form Version 4.0

INTRODUCTION

Name of Company and Location	Date of Audit: May 21-25, 2007	
Brookhaven National Lab, Upton, NY	Duration (days; must match quote): 20	
Type of Audit and Standard Surveillance of ISO 14001:2004, OHSAS 18001:1999	FRS No.(s): 69525, 69528	
Total Number of Employees : 2570	Certificate Expiration Date: EMS – 6/24/07; OHSAS Phase 1 – 10/10/07, Phase 2 – 12/1/08	
Scope Statement has been verified: XYES NO		
FRS Changes Since Last Audit: Has any of the following change	ged since last audit: See FRS' for actual changes.	
	icing Information Mgt. Rep. (Division ER)	
\square Supplier codes \square Audit Frequency \boxtimes Other	er	
Describe in detail:		
Confidentiality and non-disclosure agreement has been signed	by all auditors and is on file with NSF-ISR	
Executive Summary (list positive practices, summary type of findings,	auditors' evaluation of the condition of the MS, note any	
positive or negative trends)		
Recommending for continued registration/certification to both Standards	s throughout the Lab.	

Continual Improvements/System Strengths identified during this audit included:

- Linkage between institutional objectives and Directorate and other levels of the organization's objectives and targets process and documentation has become much clearer.
- Internal Audit records and documentation (Institutional Level) very well done, easy to follow and understand; provides good and clear evidence of the process and, therefore, conformity to requirements.
- Management Reviews improved demonstration of use of various and required inputs, discussion of information and data and the decisions and outputs made by management during these meetings.
- C-AD/SMD Moving all of their E/OSH MS documentation to an electronicly controlled state well done!
- The Lessons Learned process is an effective tool for communication. It helps communicate preventive actions throughout the laboratory. Its effectiveness was evident by the Intellectual Property and Sponsored Research Group developing safety guidelines for the move to Building 185 because they had read this in the Lessons Learned system.
- The Instrumentation Division has had a significant reduction in hazardous waste over the last six years.
- There is a strong safety culture in the ERP Directorate. (A good place for it.)
- Use of Iris Scanning technology in NSRL to restrict use of high hazard areas from personnel who have not completed all required training.
- IH Division Procedural documentation very clearly written and nicely formatted.
- IH Lab Well organized, good systems in place for identification and tracking of equipment to ensure calibrations are current
- Training and work permits were completed for individuals moving to new buildings to prevent injuries
- EENS uses innovative awareness-raising techniques such as Jeopardy game. Positive and frequent communication between EHS Coordinators and employees throughout all areas audited.
- Record storage and access of PM worker orders is excellent. Records throughout lab are well-organized and identified.
- Various groups demonstrated extra commitment to emergency response (ex. Information Services FY07 O&T for extra drill, Diversity Office active participation in Bldg 400 ORE and EENS ES Subject Area Committee).
- IH Noise Level Monitoring & Evaluation Handbook and poster for Motor Pool excellent and practical worker aid providing clear information regarding hearing protection for work activity hazards in this area.
- CEGPA Efforts to integrate Tier 1 inspection reporting and tracking demonstrates the directorates emphasis on internal synergy and reduction of duplicity.

- CEGPA -Community outreach and internal/external publications support the Lab's commitment to interested parties.
- CEGPA The Incident Assessment Plan for the new building ceremony 5/21/07 was very comprehensive with regards to safety, health and environmental priorities.
- BESD -JRA's are well documented and revised with excellent documentation regarding needs for revisions, be it based on regulatory changes, incidents both at BNL or noted in ORPs from other labs, with an emphasis on prevention of recurrence and potential occurrence.
- BESD staff demonstrated proactive measures towards addressing potential S/H/E risks through the "Jumpstart" initiative with future users of the CFN facility participation in ESR'/JRA'/FRA' as the facility is brought "on line".
- BESD -Students interviewed were articulate in response to questions regarding their awareness of responsibilities and requirements of the EMS/OHSAS.
- NSLS -D-Base utilized for tracking of Tier 1 inspection findings is an effective tool for trending and prioritizing risks and resources.
- NSLS -Excellent display of EH&S signage in the beam area. Additionally, safe work practices were observed such as bonging for drum containing flammable aerosols, with lid closure fixtures to ensure compliance requirements are adhered to.
- NSLS -Emergency Drill Summary Report dated 2/07 is very comprehensive and informative. It was also traceable to action items and closure responses for needed improvements identified as a result of the drill conducted 10/03/06.

Based on the numbers of nonconformance's identified by the NSF-ISR audit team the Company's **internal audit system** and overall management system is acceptable.

No. of OFI's: 6

No. of New Minors: 1

No. of New Majors: 0

Previous CARs Not Closed:	Previous Majors Closed:	Previous Minors Closed:	
0	NA	5	
RECOMMENDATIONS: The Closing Meeting was held on May 25, 2007 with management to summarize the audit results. Based on the results of the audit, the audit team will make the following recommendation to NSF-ISR Management: RECOMMENDATION FOR CONTINUED REGISTRATION. RECOMMENDATION FOR REGISTRATION FOLLOWING VERIFICATION OF CORRECTIVE ACTION - There are one or more nonconformances that, in the judgment of the lead auditor, can be corrected by the Company and verified by an auditor without a full re-audit.			
represent a breakdown of t	FOR ON SITE REASSESSMENT - The Company's management system. And the Company's management system.	nother full onsite audit is required.	
	changes in operations, specifications, or osures, etc., since the previous audit. Al	rganization, responsibility, Management so, include a summary of evidence of	
1 6			
Use of the NSF-ISR Registration Mark: NSF-ISR registration mark and determ	During the audit visit the auditor reviewed nined that: (check one box)	the organization's use of the	
☐ The Mark is NOT being applied.		NOT being applied correctly and the is NOT properly advertising their	
The Mark is being applied correctly is properly advertising their Registra	and the organization Registration.		
	Other:		
Based on the numbers of nonconformance's identified by the NSF-ISR audit team the Company's internal audit system and overall management system is acceptable .			
This report will be submitted to NSF management for its (continuing) registration determination.			

DEFINITIONS:

Nonconformance:

Major – The absence or complete breakdown of an element of the management system. A number of minor nonconformances against one element can represent a total breakdown of the system and thus be considered a major nonconformance. A major could also be a nonconformance that would result in the probable shipment of nonconforming product or reduce the usability of the product or service for its intended use or a nonconformance that would result in the failure of the management system or materially reduce its ability to assure controlled processes and products. A major might also be written as a result of a significant environmental incident.

Minor – A single observed nonconformance. A minor nonconformance shall not generally be a reason to withhold registration unless, in the judgment of the audit team, the minors are numerous that it represents a breakdown of the standard element or Company's management system.

Opportunity for Improvement – A finding not determined to be a nonconformance but which, in the opinion of the audit team, would be a management system improvement.

Corrective Action Plan Closure Requirements

Corrective Action shall be applied to the identified major/minor. Corrective action impact analysis shall be extended to all areas where similar nonconformance <u>may</u> exist and as applicable.

The Company shall perform a root cause analysis and define corresponding corrective actions to be implemented as soon as possible and within 90 days of this visit. The Company shall inform the lead auditor of corrective actions and target date for implementation. Corrective action should be extended to all areas where similar nonconformance may exist. Corrective action should also be taken on all nonconformances regardless of the process rating.

Organization CAR Closure Process:

The auditor will review the CAR plan for the following elements-

- 1. Determine / document any immediate action required / taken
- 2. Determine the Cause of the Problem (e.g. True Root Cause, 5 why's)
- 3. Evaluate Action needed on the Identified Cause
- 4. Determine if the problem exists elsewhere in the system and implement actions needed
- 5. Document the results of the action taken
- 6. Review/Verify and document effectiveness of Action taken with objective evidence

NOTE: Closure shall be documented using the company's internal implemented Corrective Action process, and with attachment of supporting evidence. (i.e. Training records, revised procedures, etc)

☐ Plan Required in 7 days ☐ Plan Required in 30 Days ☐ Corrective Action Plan Not Required ☐ Other (Explain):

Corrective actions shall be mailed to: Ken Clayman
6125 Fox Point Road
Fredericksburg, VA 22407

kaclayman@gmail.com 703-995-4857 (Fax) **Opening Meeting Date**: May 21, 2007

Attendance: Ken Clayman-NSF Lead Auditor, B. Sprague-NSF Auditor; D. Henderlight-NSF Auditor; G. Bellen-NSF Auditor; R. Selvey-IH Manager; B. Schwaner-TQ Manager; R. Karol-C-AD ESHQ Division Head; E. Lessard-C-AD ESHQ Assoc. Chair; S. Bronson-Education Administrator; P. Carr-EENS E/OSHMS Representative; T. Lambertson-Manager CFS Division; B. Heneveld-S&IH Manager; M. Israel-Director of Internal Audit & Oversight; B. McNair-Manager IA&O; T. Maugeri-OMS/HR/POC; S. Stein-QMO/EWMSD QR/POC; E. Murphy-Manager Plant Engineering; D. Lovenstein-Chairman C-AD; R. Bielgelman-Gen'l Counterintelligence Officer; P. Williams-Manager SHSD; J. Selva-EMS Program Manager; M. Bebon-Deputy Director Operations; R. Dinardo-Instrumentation Division; S. Ferrone-EWMSD/ECR; M. Heinrich-ESH Coordinator; J. Amabile-SSD; B. Royce-F&O Directorate; J. Wilke-Quality Management Office; R. Chmiel-NSLS; R. Ondrovic-Inventory Manager; G. Droguardi-PR Supv. Inventory; M. Peterson-Manager Inventory Services Division; K. Klaus-ECR; A. Emrick-EMS/OHSAS Rep Life Sciences; C. Anderson-Chair BO; G. Ceranzen-USDOE-BHSU; M. VanEssendelft-ECR; K. White-OEP Manager; G. Goode-EWMSD Director; N. Bernholc-CIH POC; W. Litzke-HP; J. Indusi-NN; A. Gray-ESH Coordinator; P. Pohlot-ECR; C. Schaefer-Radcon Manager; D. Bauer-ECR

Closing Meeting Date: May 25, 2007

Attendance: Ken Clayman, B. Sprague; D. Henderlight; G. Bellen; R. Selvey; B. Schwaner; R. Karol; E. Lessard; S. Bronson; P. Carr; T. Lambertson; B. Heneveld; M. Israel; B. McNair; T. Maugeri; S. Stein; E. Murphy; D. Lovenstein; R. Bielgelman; P. Williams; J. Selva; M. Bebon; R. Dinardo; S. Ferrone; M. Heinrich; J. Amabile; J. Wilke; R. Chmiel; G. Droguardi; M. Peterson; K. Klaus; A. Emrick; C. Anderson; G. Ceranzen; M. VanEssendelft; K. White; G. Goode; N. Bernholc; W. Litzke; J. Indusi; A. Gray; P. Pohlot; C. Schaefer; J. Taylor; R. Backofen; J. Tarpinian; C. Harris; A. Ackerman; R. Sabatini; J. Peters; R. Gill; R. Costa; T. Ludlam; S. Aronson; K. Conkling; P. Bond; D. Lowenstein; F. Henn; N. Gmur; P. Flood; G. Dioguerd; R. Ondrovic

Opening Meeting Topics	Closing Meeting Topics
Introduction - Discuss Role of Each Auditor	Stress Appreciation for Cooperation/Hospitality
Leave Continuous Improvement Survey with Management Representative	Attendance Sheet Circulated
Attendance Sheet Circulated (if necessary)	Customer Review and Approval of FRS including Scope Statement on the FRS (review with client)
Confirm Confidentiality/Nondisclosure Agreement	State Purpose of Meeting
Review Scope/Objectives of Audit	Recommendation of Audit Team
Discuss Audit Process: Sample of Management System	Management System Strengths/Features
NSF-ISR Checklist / Objective Evidence	Management System Features to be Improved
CARs - Auditor/Auditee Responsibilities	Audit Report Summary: Definitions of Major/Minor Non-Conformance Audit Summary Sheet - Conformance to Audit Standard Review Scope/Objective of Audit/Sampling of Management System
Definition of Major/Minor Non-Conformance/opportunity for improvement	Corrective Action Response (CARs) Request Process: 1) Identify Immediate Problem 2) Root Cause Analysis 3) Prevention (solicit commitments and timing of implementation)
Appeals Process	Final Report - process/content/timing
Audit Summary Sheet - Conformance to audit standard	Confidentiality
Daily Meetings	Appeals Process
Define Three Registration Recommendation Types	Explain Verification Audit, If Applicable
Closing Meeting Time/Date/Place	If Recommendation is to Register: N/A
Review site safety/emergency procedures	Management System Changes, if applicable
Review Audit Schedule (revise as needed)	Registrar Changing Rules
Confirm Escort/Guide	Maintaining Customer Complaint Record
Identify and Clarify Communication Links	Surveillance Audits
Confirm Working Arrangements - hrs/lunch/auditor facilities	Use of NSF-ISR Mark

CORRECTIVE ACTION REQUESTS: (OFI's should be numbered as OFI-1, OFI-2, etc.)

Previous Audit Findings – Evidence of Closure

CAR No.: BNL-	STANDARD NO. AND CLAUSE: ISO 14001:2004,	LOCATION OF FINDING: Noted in Evidence	
SA06-2	OHSAS 18001:1999, Clauses 4.4.5		
Type: Minor	DISCUSSED WITH: Representatives from each division or area noted		FRS: 69525, 69527, 69528 AUDIT DATE: 6/19-23/06

STATEMENT OF REQUIREMENT:

Management System documents shall be maintained under controls per procedures. Obsolete documents must be removed from circulation to prevent unintended use. Documents must be available at points of use.

STATEMENT OF NONCONFORMITY:

Evidence of documents that are not being controlled properly was found in the noted Lab areas/divisions/locations. This included evidence of not removing obsolete documents from unintended use, not providing appropriate revision information on controlled documents, and not having documents at points of use.

OBJECTIVE EVIDENCE:

F&O-Staff Services Division, Motor Pool - Using JRAs identified as "Draft" release, while the actual release is Rev. 1, 4/28/06;

EWMSD LTRA - O&M Manual was not present at the OS-1 groundwater treatment facility as required in the Standard and EWMSD procedures;

F&O-HEMO - Parts Washer Operating Rules, posted near the equipment did not include control information such as Revision/Date;

BESD, Superconducting Group lab – Metal Powder Glove Box binder included a procedure with no evidence of document control (revision information, etc.).

AUDITOR REVIEW OF COMPANY'S CORRECTIVE ACTION:

COMMENTS: Audit team reviewed evidence of corrections and corrective action that has occurred and/or is in process. Lab has initiated a long-term corrective action to try to completely identify all incidents of document control violations and address all actual and potential root causes. Some efforts, such as in SHSD have already proved very helpful in improving the management systems.

STATUS: Closed Auditor: K. Clayman Date: 5/25/2007

CAR No.: BNL- SA06-3	STANDARD NO. AND CLAUSE: ISO 14001:2004, Clause 4.6	LOCATION OF FINDING: S Division	Superconducting Magnet
Type: Minor	DISCUSSED WITH: Environmental Compliance Representative, SMD ESH Coordinator, SMD QA Manager		FRS: 69525 AUDIT DATE: 6/19-23/06

STATEMENT OF REQUIREMENT:

ISO 14001:2004, Clause 4.6 requires particular inputs to be included in periodic Management Reviews. These inputs include review of external environmental communications and/or complaints and review of follow-up actions from previous Management Review meetings.

STATEMENT OF NONCONFORMITY:

There was no evidence that SMD included all required inputs during the Management Review conducted in February 2006.

OBJECTIVE EVIDENCE:

Based on review of the SMD Management Review Meeting Minutes and Presentation records, SMD did not include the required inputs regarding external environmental communications and/or complaints, and review of follow-up actions from previous Management Review. The ECR and SMD ESH Coordinator confirmed that these inputs had not been included in the Review meeting discussions. These inputs are required according to ISO 14001:2004 Subclauses 4.6.b and 4.6.f.

AUDITOR REVIEW OF COMPANY'S CORRECTIVE ACTION:

COMMENTS: Reviewed most recent SMD Management Review records and interviews with SMD personnel show that the issue in this department has been resolved. Changes to the Subject Area in SBMS also should prevent recurrence of this issue if the requirements are followed.

STATUS: Closed Auditor: K. Clayman Date: 5/25/2007

CAR No.: BOSH-4	STANDARD NO. AND CLAUSE: OHSAS 18001:1999, Clause 4.3.4	LOCATION OF FINDING: RadCon, QMO grou	JRAs/FRAs for SHSD, ups
Type: Minor	DISCUSSED WITH: SHSD, QMO, RadCon Representatives		FRS: 69528 AUDIT DATE: 12/4-7/2006

STATEMENT OF REQUIREMENT:

SBSM Interim Procedures 2004-18001-001 & -002 Facility and Job Risk Assessments (respectively, 11/05 revisions) require that the risk factors are re-estimated/recalculated once newer, additional controls are developed and implemented for the identified, associated hazard(s).

STATEMENT OF NONCONFORMITY:

Risk factors were not re-estimated/recalculated in JRAs or FRAs prepared by the three groups within the ESH&Q Directorate.

OBJECTIVE EVIDENCE:

The following FRAs/JRAs showed additional controls had been developed/implemented for the associated hazards, but the risk factors had not been re-estimated/recalculated:

FRA-QMO-01, SHSD-JRA-15, FS-FRA-01, FS-JRA-01.

AUDITOR REVIEW OF COMPANY'S CORRECTIVE ACTION:

COMMENTS:

STATUS: Closed AUDITOR: K. Clayman DATE: 5/25/07

CAR No.: BOSH-5	STANDARD No. AND CLAUSE: OHSAS 18001:1999, Clause 4.4.5	LOCATION OF FINDING: CMS	Educational Office, OMC,
Type: Minor	DISCUSSED WITH: Gail Donoghue, Terry Maugeri, Bob Petricek		FRS: 69528 AUDIT DATE: 12/4-7/2006

STATEMENT OF REQUIREMENT:

The Organization shall establish and maintain procedures for controlling all documents required...

STATEMENT OF NONCONFORMITY:

Several local documents in various departments were in use but not included under document control requirements.

OBJECTIVE EVIDENCE:

- --CMS New Employee orientation and training checklist (Uncontrolled copy in use, controlled by IH50350)
- --Education department's instructions for the conduct of cryogenic or other chemisty experiments (uncontrolled)
- --OMC hearing threshold shift guidelines (Dated 2003, current documents are integrated with the reporting computer program).

AUDITOR REVIEW OF COMPANY'S CORRECTIVE ACTION:

COMMENTS: Audit team reviewed evidence of corrections and corrective action that has occurred and/or is in process. Lab has initiated a long-term corrective action to try to completely identify all incidents of document control violations and address all actual and potential root causes. Some efforts, such as in SHSD have already proved very helpful in improving the management systems.

STATUS: Closed AUDITOR: K. Clayman DATE: 5/25/2007

CAR No.: BOSH-6	STANDARD NO. AND CLAUSE: OHSAS 18001:1999, Clause 4.3.2	LOCATION OF FINDING: Safety and Health Serv Division	
Type: Minor	DISCUSSED WITH: SHSD IH Manager	FRS: 69528 AUDIT DATE: 12/4-7/2006	5

STATEMENT OF REQUIREMENT:

The Organization shall establish and maintain a procedure for identifying and accessing the legal and other occupational health and safety requirements and keep this information up to date.

STATEMENT OF NONCONFORMITY:

Internal BNL IH procedure Industrial Hygiene Requirements Management does not include a regulatory driver for regulation 29 CFR 1910.95 for Hearing Protection, although this regulation has been identified by the SMBS Noise and Hearing Conservation Subject Area.

OBJECTIVE EVIDENCE:

The quarterly review of regulations for 29 CFR 1910.95, required by the Industrial Hygiene Requirements Management Procedure IH50700, rev 11/01/05, was not performed. This particular regulation is not listed on the Attachment 1 form, Industrial Hygiene Regulatory Drivers; however it is referenced in the SBMS Noise and Hearing Conservation Subject Area

AUDITOR REVIEW OF COMPANY'S CORRECTIVE ACTION:

COMMENTS: Evidence reviewed during the Reassessment audit identified that there has been corrections and corrective actions taken to address this issue. An ongoing action was in process at the time of the audit to further institutionalize preventive measures to avoid further similar incidents of this kind.

STATUS: Closed AUDITOR: K. Clayman DATE: 5/25/07

	New Audit Findin	gs - Reassessment	
CAR No.: OFI-1	STANDARD NO. AND CLAUSE: ISO 14001:20 OHSAS 18001:1999, Clauses 4.4.7	004, Location of Finding:	Lab-Wide
Type: OFI	DISCUSSED WITH: Various Personnel from Services and other Directorates	m SHSD, Emergency	FRS: 69525 AUDIT DATE: 5/21-25/07
STATEMENT OF REQUIREMENTS OF REQUIREMENTS OF REQUIREMENTS.	REMENT: nall review and where necessary revise em	ergency response procedures	, particularly following actual
STATEMENT OF NONCO	NFORMITY:		
response to real or	to improve the critique and effectiveness refalse alarms.	eview of emergency procedur	res for both planned drills and
AUDITOR REVIEW OF C COMMENTS:	COMPANY'S CORRECTIVE ACTION:		
STATUS:	AUDITOR: DATE	Е:	
CAR No.: OFI-2	STANDARD NO. AND CLAUSE: ISO 14001:20 4.3.3	Location of Finding:	Lab-wide
TYPE: OFI	DISCUSSED WITH: P2 Coordinator for F& EHS Coordinators	kO, PPM Manager, various	FRS: 69525 AND 69528 AUDIT DATE: MAY 21-25, 2007
	shall establish, implement and maintain its operations that can have a significant		and measure the key
of paper. Consider	ing the paper use reduction program by er raising awareness of proactive appro purchases, minimization of printed me	aches to reducing paper use	such as decision-making for
AUDITOR REVIEW OF COMMENTS:	COMPANY'S CORRECTIVE ACTION:		

CAR No.: OFI-3	STANDARD NO. AND CLAUSE: ISO 14001 and OHSAS 18001, 4.4.5	LOCATION OF FINDING: SBMS	
Type: OFI	DISCUSSED WITH: EENS EHS Coordinator		FRS: 69525 AND 69528 AUDIT DATE: MAY 21-25, 2007
STATEMENT OF PROHIDEMENT.			

AUDITOR:

Documents ...shall be controlled. Procedure shall include that changes and the current revision status of documents are identified.

DATE:

STATEMENT OF NONCONFORMITY:

N/A

STATUS:

OBJECTIVE EVIDENCE

There is an opportunity to clarify the revision identifiers on SBMS documents. The footer of every SBMS document says, "Before using a printed copy, verify that it is the most current version by checking the last modified date (at the top of each subject area and bottom of other pages/document)." The dates at the top and bottom of the pages are different. The modified date at the top appears to indicate major revisions and the dates at the footers indicate latest minor revisions. The SBMS Subject Area does not mention this footer requirement and recommends users to acess to the revision history link for each document.

AUDITOR REVIEW OF COMPANY'S CORRECTIVE ACTION: COMMENTS:

STATUS: AUDITOR: DATE:

CAR No.: OFI-4	STANDARD NO. AND CLAUSE: OHSAS 18001, 4.4.6 LOCATION OF FINDING: Fire House		: Fire House	
Type: OFI	DISCUSSED WITH: Acting Manager of ES Division		FRS: 69525 AND 69528 AUDIT DATE: MAY 21-25, 2007	
STATEMENT OF REQUI	REMENT:			
The organization	shall plan activities i	n order to ensure that the	y are carried out und	er specified conditions
STATEMENT OF NONCO	ONFORMITY:			
N/A				
OBJECTIVE EVIDENCE:	:			
	· -	e PM procedures used by process does not current		ck whether fire protection m to review if there is a
AUDITOR REVIEW OF COMMENTS:	COMPANY'S CORRECTIVE A	Action:		
STATUS:	AUDITOR:	DATE:		

CAR No.: OFI-5	STANDARD NO. AND CLAUSE: OHSAS 14001, 4.4.6	LOCATION OF FINDING: Information Technology
TYPE: OFI	DISCUSSED WITH: EHS Coordinator for ITD	FRS: 69525 AND 69528 AUDIT DATE: MAY 21-25, 2007
STATEMENT OF REQUIREMENT:		

The organization shall plan activities in order to ensure that they are carried out under specified conditions...

STATEMENT OF NONCONFORMITY:

N/A

OBJECTIVE EVIDENCE:

There is an opportunity to improve the storage and management of aerosol can puncturing for small organizations who do not have their own can puncturing stations.

AUDITOR REVIEW OF CO COMMENTS:	OMPANY'S CORRECTIVE ACTION:		
COMMENIS.			
STATUS:	AUDITOR: DATE:		
CAR No.: BNL-	g y + g ISO 14001-20	M Logarroy on Emphys	. ED. Defrigeration
RA-6	STANDARD NO. AND CLAUSE: ISO 14001:20 CLAUSE 4.5.3	Maintenance	: EP: Refrigeration
IAA-0	CLAUSE 4.5.5	Mamenance	
Type: Minor	DISCUSSED WITH: F&O EHS Manager		FRS: 69525 AND 69528
			AUDIT DATE: MAY 21-25, 2007
STATEMENT OF REQUIR			
The organization sinonconformities	hall establish and maintain a procedure f	or dealing with actual an	d potential
nonconformities	••		
STATEMENT OF NONCON	NFORMITY:		
	ified in a Jan 18, 2007 self assessment whi	ch was not entered into t	he family ATS and was not
addressed.			
OBJECTIVE EVIDENCE:			
OBUBETT E E (IBETTEE)			
The need for calibr	cation of the scales used to weigh refriger	ant containers was identi	fied in a compliance review of
a self assessment of	f the refrigerant management program d	ated January 18, 2007. T	he issues was not addressed
and is not entered i	into the family ATS for tracking and com	pletion.	
AUDITOR REVIEW OF CO COMMENTS:	OMPANY'S CORRECTIVE ACTION:		
COMMENTS:			
STATUS:	AUDITOR: DATE:		
CAR No.: OFI-7	STANDARD NO. AND CLAUSE: OHSAS 18001:1999	LOCATION OF FINDING	
CHRISON OIT 7	4.3.1, 4.5.2	CEGPA	•
TYPE: OFI	DISCUSSED WITH: RICK BACKOFEN	FRS: 69525	
STATEMENT OF REQUIR	EMENT.	AUDIT DATE: MAY 21-2	25, 2007
	will be reassessed prior to implementatio	n of corrective and preve	entive actions and changes will
be recorded.	F		
STATEMENT OF NONCON	NFORMITY:		
OBJECTIVE EVIDENCE:			
	jury, JRA PG-Cutter was reviewed and i	evised on 3/20/07. The "r	reason for revision" is noted
as due to occurrence of incident. An additional control was added to one task, the risk ranking was reassessed			
however the risk ranking did not change. Consider recording that a review is conducted on the entire JRA, what			
changes/controls w	ill be implemented, especially if the risk i	anking will not be reduc	ed.
Average Province and Co	OMBANYIA CONDUCTIVITA A CONCU		
AUDITOR REVIEW OF CO COMMENTS:	OMPANY'S CORRECTIVE ACTION:		
- >			
STATUS:	AUDITOR:	DATE:	

AUDIT NOTES:

Processes	Location/Observations
Changes	Center for Functional Nanomaterials – building has been completed and the personnel will begin moving into the facility soon (ribbon-cutting first day of audit). Light Source II building project ramping up (recently approved to begin design activities; NEPA study completed).
	J. Tarpinian – ESH&Q Director will be leaving BNL in about 2 months (moving to Battelle Headquarters). He is the OSH MS Management Representative. New representative will be selected at a later date (under discussion presently)
Objectives, Targets, Programs, Measures & Metrics	Identify process inputs and describe their interactions with the process: FY07 Environmental Objectives & Targets (11/13/06); FY07 OSH Objectives & Targets (11/9/06); FY2007 Operations Business Plan (12/15/06); ISM/Safety Improvement Project Plan (2006); Annual Laboratory Plan (ALP; 11/15/06)
(E&O – 4.3.3, 4.4.1, 4.4.3, 4.4.4, 4.5.1, 4.6; O – 4.3.4, 4.5.2, 4.5.3; E – 4.5.3, 4.5.4	Process Objective(s) : Ensure the establishment of E/OSH objectives and targets based on appropriate criteria (noted in the Standards) that help the organization to achieve E, H&S performance improvements. Also, ensure that programs are developed that define how the organization plans to achieve these goals.
	Describe whether the process is effective or not: Yes – This area has been a work in progress over the several years that the Systems have existed, and as a result is showing very strong signs of improvement. There is a much clearer link present between the establishment of institutional level objectives/goals and those that are created at the Directorate or other levels of the Lab. This has been identified as a Noteworthy practice.
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): The noted documents for E/OSH O/Ts are considered the institutional level goals – they are directly related to and flow down from the Business Plans, Improvement Project Plan, Laboratory Plan and associated DOE requirements included in the Contract with the Lab. Directorates, Departments, Divisions, etc. are expected to select the specific O/Ts applicable/relevant to their activities/operations and develop the management programs to define how they intend to achieve the goals. Monitoring/Measurement (M/M) data are provided from these "lower" levels to the institutional Lab levels (to the management representatives), where they are collated, analyzed and used as part of the Lab-level Management Reviews inputs.
	Some of the target deadlines in the FY06 and FY07 OSH O/Ts/OSH MPs were postponed due to their need to address the requirements of 10 CFR 850 and 851 per DOE directives – they are currently waiting for approval of their 850/851 Plans from DOE.
	EMS-SPDES Issues – Nitrate exceedances – focus on Plant Engineering; waiting for NYS DEC approval of sludge management/disposal plan. The current theory is that the exceedances are caused by sludge that remains in the system, but that they cannot yet remove because of a question of its radioactivity levels.
	E-Objectives – EMS Improvement, Compliance, Pollution Prevention, Communications, GW Protection, Enhance Natural & Cultural Resources Management Program, Environmental Clean-up
	Rev'd: Quarterly Report – 2 nd Quarter FY07 (4/12/070

Processes	Location/Observations
	OSH – DART/TRCR - $\leq 0.25/\leq 0.65$ – currently over these targets. Encouraging through
	various means (training, communications strategies) behavioral modifications.
	OSH O/Ts include: Improve OSH MS, Conduct OSHA Extent of Condition Reviews, Improve Accident/Injury Rate Performance, Improve Implementation of Material Handling Training Program, Compliance, Communications, Student Safety, Travel (9 total).
	Part of the attempts to improve DART/TRCR – instituting more formalized work evaluation activity. Different solutions under discussion (attach JRAs to work orders for example).
	Around 20 S2 proposals submitted – waiting on funding. ESS&H Monthly Summary – includes updates on recordable/DART Cases, Traffic Safety
	See attached audit notes for additional evidence of conformance and interviewees.
	Interviewees: Deputy Director-Operations; Laboratory Director; Manager-SHSD; Manager-EWMSD; ALD-EHSQD
Management (Factorial)	Identify process inputs and describe their interactions with the process: Noted in process description notes below.
(E&O - 4.2, 4.3.3, 4.4.1, 4.4.3, 4.4.4, 4.5.1, 4.6; O-4.3.4, 4.5.2, 4.5.3; E-4.5.3, 4.5.4)	Process Objective(s) : Ensure that the management systems are resourced adequately, that there is appropriate communications (internally and externally as appropriate) to ensure ongoing understanding and effective implementation of the requirements, and periodic reviews are completed to determine adequacy, suitability and effectiveness of the systesm.
	Describe whether the process is effective or not: Management activities and involvement with the two systems appears to be effective – there is a general indication and evidence of commitment from management, demonstrated through their participation in Lab communications and other events, as well as their involvement with the Institutional Level Management Reviews. Resources are provided, although there has been some difficulties with planning and allocation due to decreasing funding levels over the past several years from the DOE, while, in some respects, the requirements and obligations relative to EH&S has increased.
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): DD-Operations: Operations Business Planning cycle is in process – creates a high level "to do" list.
	• Includes lab level objectives/targets (OSH&E, in addition to business items)
	 Includes lab level management reviews Working on process improvement initiatives such as clarifying the R2A2s of Assessment
	Managers, particulary when the requested assessment is of a cross-functional nature.
	• FY2007 Operations Business Plan (12/15/06) • ISM/Sofety Improvement Project Plan (2006) satisfying a dedicated project manager to
	• ISM/Safety Improvement Project Plan (2006) – utilizing a dedicated project manager to run the overall set of projects
	 Several EH&S Initiatives – incorporates the E/OSH Objectives & Targets as well as
	enables them through flow-down to the directorates. Example: Reduction of Legacy
	Waste and Reduction of TRCR/DART rates
	• Rev'd: Performance Assessment records/results (3/27/07) – stop-light charts; working the issue of recycling building parts at end of life/demolition as one of the inititives.
	 Annual Laboratory Plan (ALP; 11/15/06)
	 Review of the Plans and initiatives descriptions provides good evidence of coordination
	and flow-down of Lab objective/goals [Noteworthy]

Processes	Location/Observations
Processes	 Operations Organization Integrated Assessment Report (FY06) – review of '06 objectives, successes, misses, etc Captures DD's review of all types of assessments done in Operations areas along w/ORPs review – ask for input from select staff as well. Most recent Management Reviews for OSH & EMS (completed separately), December '06 E-Issues – spills, GW cleanup, etc. FY06 EMS Management Review Record of Decision (ROD; 3/7/07) – meeting held 12/18/06 Minutes and RODs Institutional Level OSH MR (12/19/06) Have begun a Human Performance improvement initiative as part of the overall improvement of OSH conditions at the Lab due to an upward spike in the DART and TRCR rates. Recognition of Life or Habitual type safety issues, as opposed to organizational or operational issues. Resulting in part in revising Work Planning requirements. See attached notes for additional evidence of conformance and interviewees. Interviewees: Deputy Director-Operations; Laboratory Director; Manager-SHSD; Manager-EWMSD; ALD-ESHQD, others
Internal Audit, Corrective/ Preventive Actions, Management Review – Lab Wide (E&O – 4.6; E – 4.5.5, 4.5.3, 4.5.4; O – 4.5.4, 4.5.3	Identify process inputs and describe their interactions with the process: Included on attached notes Process Objective(s): Ensure that the management systems are evaluated periodically for conformance to relevant requirements, actions are taken to effect improvements based on findings from audits or other actions, and that top management reviews the systems for effectiveness, adequacy and suitability. Describe whether the process is effective or not: The institutional level activities are very effective and the evidence reviewed demonstrates that improvements have been implemented as well. There is a clearer sense of the audit planning and implementation actions, based on very well documented evidence of these activities. Additionally, there appears to be better use of the ATS to record and track findings to closure. All of the information is appropriately provided to the Management Council during the Management Reviews, which also showed signs of improvement in the type of inputs and outputs that were included and derived from the meetings. Describe the Process (personnel interviewed, training, job relevance, policy, etc.): Evidence of conformance and interviewees are included in the attached hand-written notes.
Environment, Safety, Health & Quality Directorate (EHSQD) 4.1, 4.2, 4.3, 4.4, 4.5, 4.6	Identify process inputs and describe their interactions with the process: ESHQD OSH Management System Program Description (OSH Manual; R1, 9/18/06, DH-SOP-007); Other inputs/documentation reviewed is identified in the attached notes. Process Objective(s): Providing support to all areas and Lab functions to ensure proper management of environmental, health and safety issues and compliance with relevant legal and other requirements. Describe whether the process is effective or not: The functions carried out by the EHSQD in relation to the E/OSH MS appear to work very effectively based on the evidence reviewed. There is a strong sense of commitment to ensuring the Lab remains compliant with all regulatory and DOE requirements – this was evident from all levels of the Directorate.

Processes	Location/Observations
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.):
	All evidence and interviewees are included in the attached hand-written notes.
Collider-Accelerator and Superconducting Magnet Department (CAD/SMD) 4.1, 4.2, 4.3, 4.4, 4.5, 4.6	Identify process inputs and describe their interactions with the process: Inputs and documentation is identified in the attached audit notes. Process Objective(s): Operation of the Collider-Accelerator and Superconducting Magnet areas in the most efficient and effective manners to ensure good research is carried out, and in conformance/compliance with all relevant requirements.
	Describe whether the process is effective or not: C-AD and SMD both have been applying the principles and practices of the EMS and OSHMS for a while. As a result, their systems are indicating a generally advanced level of maturity. There have been structural improvements to the E/OSH MS in this area in the form of using electronic documentation and control – this represents a substantial effort, as all documentation was previously management in hard-copy form. Other improvements were noted in the completion of the Management Reviews, where there was clearer evidence of the presentation and use of required and other inputs to the meetings, and their resultant outputs. Awareness and implementation of the operational control requirements appeared to be well understood within the areas by employees. Describe the Process (personnel interviewed, training, job relevance, policy, etc.):
	All evidence and interviewees are included in the attached hand-written notes.
NASA Space Research Laboratory (NSRL) 4.1, 4.2, 4.3, 4.4, 4.5, 4.6	Identify process inputs and describe their interactions with the process: Inputs and documentation is identified in the attached audit notes. Process Objective(s): Ensure that planning and implementation relative to environmental aspects is completed so that research activities proceed with minimal impacts.
	Describe whether the process is effective or not: The work occurring at NSRL is so well-controlled that there are few, if any environmental aspects/ impacts and/or hazards/risks that may occur under normal operating conditions. In addition, the staff working the area appeared to have a very good understanding of their roles/responsibilities as it pertains to maintaining these controls effectively. Of note in the application of advanced technology to control the occupational hazards and risks at NSRL is the use of eye-scanning to identify users of the beam area, and the tight controls relative to training and users' abilities to use the beam and other areas of the lab. Describe the Process (personnel interviewed, training, job relevance, policy, etc.): All evidence and interviewees are included in the attached hand-written notes.
	Identify process inputs and describe their interactions with the process:
Documentation, Document Control and Records 4.4.4, 4.4.5, 4.5.3 (O), 4.5.4 (E)	Subject areas for documentation and document control: Internal Controlled Documents (7/27/06), Records Management (9/01/02) – last major revision, Guidelines for Developing Procedures (7/27/06), Document Review Tracking Sheet and transmittal form are suggestions, not required(7/27/06).
-1.5.7 (E)	Occupational Safety and Health (OSH) Program Description (Pilot for OHSAS 18001).

Processes	Location/Observations
	Interim OHSAS 18001 Procedures are scheduled to be reviewed and merged with EMS procedures for SBMS by year end. Program description and management system description is under consideration to be merged in this revision.
	Several directorates have already merged or considered merging the OHSAS and EMS descriptions documents (ex. F&O and EENS). There have also been discussions about the redundancy of the directorate-level program descriptions and the lab level program descriptions.
	SBMS Subject Areas, local records requirements described in Directorate level program descriptions, actual records and interviews with individuals responsible for records.
	Process Objective(s): To describe the EMS and OHSAS systems, provide linkages with the systems and the process to control documents and records. Process to management records related to the EMS and OHSAS programs.
	Describe whether the process is effective or not: The process is effective and meets the requirements of ISO 14001 and OHSAS 18001. Documents reviewed during the audit were controlled using the rules and procedures outlined in the SBMS subject area and any local requirements for documentation.
	Examples of documents and records reviewed (see notes pages for details):
	Guidelines for preparing objectives and targets for EMS and OHSAS Subject Areas for documentation, records and emergency response Local emergency plans for groups in F&O, EENS, IS and IT JRA's and FRA's in F&O, EENS, IS and IT, Internal Audits and Oversight Objectives and Targets R2A2's
	Policy postings (auditing for current version posting) Vehicle inspection forms for the safeguards group Work orders for fire inspections and HVAC repairs
	Refrigerant Management Plan (Plant Engineering) Meeting minutes for safety and environmental communication with staff Forms for EPA Recovery of refrigerants Flash Report, monthly, April 30, 2007 (F&O metrics) Records Management Subject Area SBMS Management System Description, Nov. 15, 2004 (overall management system description for BNL)
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): EMS website provides access to all the documentation. Environmental Management System Description:
	ISO 14001 Plus EMS manual describes how the system addresses the ISO requirements.
	Documentation of the system Control of documents
	Steve Stein, subject matter area expert for internal controlled documents for EMS and OHSAS.
	Meeting record for causal analysis for document control issues identified in the registration

Processes	Location/Observations
	audits since FY01. 1/23/07 was example meeting from weekly meetings.
	Self assessment aid for internal controlled document. 90% of respondents indicated that they had sufficient document control procedures in place. Due May 4. Went to quality reps, EHSQ reps and Level 1, 2, 3 managers. Report in draft. Gauge awareness and status of implementation for the Subject Area requirements. End of year; plan a targeted assessment of progress.
	Includes questions about forms control, document revision frequency, operator aids, revision history, and web-based documentation requirements.
	Revision history for all of the interim documents was reviewed. The project to publish these to the SBMS subject area has been pushed out to the end of 2007.
	Records are managed and controlled at the lab-wide level using the SBMS subject area and the management system description fore records management.
	Subject area directs the identification, inventory via code identifiers which indicate the location of records at local levels, and storage and disposition of records and maintenance of electronic records.
	Records were audited in each directorate. See notes pages for evidence.
	Identify process inputs and describe their interactions with the process:
F&O	Flash Report, monthly, April 30, 2007
Directorate	See notes for specific inputs. Specific areas audited included: Heavy Equipment Repair Shop, Motor pool/Staff Services, Plant Engineering AC/Refrigerant repair, Safeguards and Security
Processes/Departments Audited included Staff	and Emergency Preparedness and Response.
Services, Plant	Process Objective(s):
Engineering,	Process to maintain and improve facilities and support operations at BNL.
Safeguards and	
Security and Emergency Services	Describe whether the process is effective or not: The process is effective overall. There is one minor nonconformance related to checking and
Also Purchasing and	corrective action. Please reference the findings section of the report for information.
Procurement	
4.2, 4.3, 4.4, 4.5, 4.6	F&O "Programmatic" overview interviews. See below. Other departments and divisions within F&O are detailed in the hand-written notes or in the Emergency Preparedness and Response section of the report.
	Flash report monthly reports progress for objectives and measures for EHS. Includes status of DART, Total recordables, skill of the worker, worker observations (STOP).
	Worker Observation is in the red - a few organizations within F&O are not conforming to the requirement to perform STOP's (EM and SC). This has been identified as an objective to improve compliance with this requirement.
	Sending email to supervisors weekly to remind them to perform STOP observations and increase safety talk awareness, etc. April5, 2007. March 8 – memo from F%O leadership when injuries started to increase. Developed website so that reports can be directly entered. Managers can access information about number of observations performed is available.
	-Monday morning memo's include safety and environmental – every other Monday memo.

Processes	Location/Observations
	Long and full of little articles. Also includes a Q&A from employees – could be
	anonymous. Example November 6, 2006.
	Binder for EHS had evolved into a good tool for organization.
	Recycling program – discussed paper recycling and other recycling programs. Discussed
	the value of knowing the numbers of paper purchased – currently this is not tracked as a
	metric for the pollution prevention program.
	3 P2 awards from DOE. 2 from F&O (P2-Peter Pohlot) and 1 from Bob Lee. Discussion
	of the Animal Bedding P2 benefits and had many safety benefits.
	Recycling concrete aggregate from demo and using it for roads. Permit from DEC to refill
	a pit with concrete debris – looking at situation where the pit was filling up. Had the idea
	to mine the pit for concrete – saved \$789,000 and used concrete for new parking lots.
	Funding for Pollution Prevention awards (internal). Now funding is internal from directorates based on ROI.
	19 proposals get ranked by P2 council. Made up of two people from each directorate.
	Time frame for P2 program – milestones are provided for proposals. The target is to try to
	get funding for next year – or prepare a justification for why funding was not given.
	Discussion of DOJ Unicore program for electronics recycling. This was a program that
	was funded by P2 money and then inserted into this year's funding plan.
	Compliance Assessment Process
	F&O subscribes to SBMS Requirements Management. All regulations are covered in the
	Subject Area. Operations are reviewed
	Safety and Health – if new or updated subject area is issued Nick reviews the requirement
	for each division within the directorate. He writes a report identifying new issues and
	audience.
	Training: Discussion of facility Inspection and Job Site Inspection – Tier 1 – Job Site
	Inspection and Facility Inspection, Schedule shows good coverage of all groups with the
	directorate. Groups with higher risks are inspected quarterly.
	Links of P2 – recycling and purchasing. Discussed tremendous results for recycling of various
	materials. Also discussed how purchasing of items is tracked. There is an opportunity to
	formalize the paper recycling programs by documenting them and focusing on reduced use. See findings section for details.
	Green purchasing, office supply, recycled toners (big implementation hurdles, but mature
	system now.
	Recycling report goes to purchasing department. Paper storage needs to be climate controlled;
	recycled paper content tested various brands before settling on HP recycled content. E-Mall – green products are default.
	P-Card program – audit of users for recycled products.
	Environmental targets – 100% in paper products, stationery plastics, oil.
	Participate in the programs on side – green day – bring them to green day and trade for reuse. Recycling of bottles and can.
	recycling of bottles and can.

Processes	Location/Observations
	Building 703 Cellar – storage for office furniture that one might acquire.
	Chemical Management System – Culture – moving toward a more conservation purchasing for chemicals – cost savings and cost avoidance.
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): Bill Chaloupka, Plant Engineering, Water / Sewer Management; Peter Pohlot, Pollution Prevention; Rich DeRocher, Flash Reports, liaison for security division; Nick Houvener, Safety
	Solid Waste Recycling Stats FY1992 to 2007 EHS Coordinators meeting attendance sheet for April 25, 2007. 29 attendees from across the lab Industrial Hygiene Noise Level Monitoring and Evaluation for the Staff Services Motor Pool
	FY07 Objectives and Targets supporting ISO 14001 EMS, 11/13/06 (BNL guidelines for setting FY07 O7T at directorate level)
	F&O Directorate Program Description – combined EMS/OHSAS May 15, 2007 F&O Tier 1 Inspection Schedule 2007. Most quarterly-lower risk areas inspected yearly. Detailed with building numbers and responsible supervisors.
	CA7752 F&O Action related to a change to JRA-EP-HEMO-01 Fuel Truck Loading and Dispensing. Injury investigations include record of whether a change to a JRA was required after critique.
	F&O FY07 Injury Investigation Log. Entries show evidence of changes resulting in CA11611. O&M Operating Instructions for the Maintenance Fuel Truck, O&M-HEMO-007, 8/11/05
	Identify process inputs and describe their interactions with the process:
Emergency	SBMS Subject Area Emergency Preparedness, Effective Date May 15, 2003
Preparedness and	SBMS Subject Area Spill Response, Effective Date Sept, 15, 2000
Response 4.4.7, 4.4.6, 4.5.2 (O),	Run Cards on intranet and in binders at Firehouse Local Emergency Plans (sampling of buildings audited)
4.5.3, 4.5.4 (E), 4.3.1,	Records of drills and emergency response situations
4.4.4, 4.4.5	Interviews with employees, building managers and emergency responders (fire and security)
,	
	Process Objective(s): To effectively prepare and response to emergency situations including, medical, spills, fire and severe weather.
	Describe whether the process is effective or not: The process is effective and meets the requirements of ISO 14001 and OHSAS 18001.
	Detail of notes in this area is included in the hand-written notes section.
	The subject area describes the policies and procedures governing the preparedness for accident and emergency situations, including preparation of Run Cards which detail the potential hazards for each building to assist responders. Preparation of Local Emergency Plans, general requirements for emergency response, notification of next of kin in an emergency.
	Procedures are followed and up to date for all groups audited. There is an opportunity to improve the communication of critique record-keeping requirements to those individuals responsible. See findings section for details.
	151.1C DOE order generated three pages of MS Project of action items that are currently underway to improve emergency planning and response. There is an aggressive deadline for completing the actions.

Processes	Location/Observations
	Philosophy: Target drills to what is a realistic hazard in the building in accordance with the requirements of EMS/OHSAS for the activities to be appropriate to the activity.
	Annual Exercise – full participation with inside and outside folks. Report October 26, 2006, vendor Excalibur Associates assists with the planning and implementing the exercise.
	Emergency Drill 460 surprise fire drill for evacuation of employees. Drill conducted n April 13, 2007. Hand written notes. Lesson learned that new person had not had building orientation. Track it in the family ATS. Biotoxin Drill 10/17/06. Ten participants from LS, OMC, SHSD, EM, BIO, SE, DJ, BO, PE-OMC.
	Verified ES Captain's Log for tracking issues and information exchange. Daily entries. Shelter-in-place assessments and drills conducted by building managers. Life Safety Code – NFPA 101 is referenced
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): See notes for evidence of specific interviews. Interviewees included police, police training captain, firearm inventory clerk, firefighters, fire safety engineer, acting fire chief, John Searing (emergency planning program coordinator).
EENS Directorate 4.2, 4.3, 4.4, 4.5, 4.6	Identify process inputs and describe their interactions with the process: Objectives and Targets for FY07, Revised JRA's and work permits and ESR review and update. Local Emergency Plans and training programs.
	Process Objective(s): To effectively implement and maintain the EMS and OHSAS systems within the EENS directorate.
	Describe whether the process is effective or not: EMS and OHSAS are effectively implemented within the EENS Directorate.
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): See handwritten notes for specific evidence of conformance.
	Status for EENS O&T FY07 – Excellent project management of progress tracking for O&T. Last update 5/1/07
	EENS Work Permit for Lifting/Packing and unpacking boxes – RO-042407-01 EENS Safety Newsletter Special Pre-Audit Edition, Feb 2007 EENS Lifting presentation – PPT Training
	ESR's for laboratory work JRA's example Cryo EENS-JRA-004 was revised after a assessment for oxygen deficiency. Score reduced from 40 to 28.
	EENS-JRA-027 for the Neutron Generator revised on 3/16/07. New JRA. Field work is not performed off site – this may result in different hazards, therefore a new JRA was developed.
	Interviews with PI x3, Admin x2, EENS ops manager, EENS EHS Coordinator, EENS Lessons Learned Coordinator, Bldg. Manager.
Internal Audit and Oversight	Identify process inputs and describe their interactions with the process: Objectives and Targets for FY07, Revised JRA's and work permits and ESR review and update. Local Emergency Plans and training programs.
Diversity Office	Process Objective(s): To effectively implement and maintain the EMS and OHSAS systems within the Internal

Processes	Location/Observations
Information Services	Audit and Oversight Division, Diversity Office, Information Services Division, and
Division	Information Technology Division.
Information Technology Division 4.2, 4.3, 4.4, 4.5, 4.6	Describe whether the process is effective or not: EMS and OHSAS are effectively implemented.
1.2, 1.0, 1.1, 1.0, 1.0	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): See handwritten notes for specific evidence of conformance.
	Memo 2/12/07 regarding the critique of the false alarm for building 515. Took the opportunity to communicate the requirements for evacuation to all staff within the department
	Information Services performed a shelter in place and reviewed the full LEP and made changes to the plan (rev 5/2007). Changes were documented and included changing the responsibility for locking the windows and doors and making a redundant requirement for several people to bring the roster/routing slip for headcount. All employees were asked to review the plan and make comments via email.
	Interviews with Internal Audit and Oversight (2 people), Diversity Office (1), Information Services (2), Information Technology (6)
Competence, Training and Awareness	Identify process inputs and describe their interactions with the process: Line Supervisors, Job Training Analysis, Brookhaven Training Management System (BTMS)
4.4.2, 4.5.3 (O), 4.5.4 (E), 4.4.3	Process Objective(s): The objective of this process is to is to assure that competency needed for jobs and specific tasks are identified and provided through training and or experience.
	Describe whether the process is effective or not: The process is effective. Each Directorate has a Training Coordinator to assist in training management. A job training analysis is completed for jobs and reviewed at least annually. Training needs are also analyzed through job risk analyses. Training is tracked with the BTMS. Individuals whose training is about to expire are notified 15, 5, and 3 days in advance. If training expires their supervisors are notified and they are not allowed to do related work until the training is completed. Verified later in the audit that there are strong operational controls to prevent work being conducted by non-trained personnel.
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): Beth Schwaner, Training Manager Stephen Ferronex
	Fred Horn EM EP 117 Spill Training/Simulation for Stephen Ferronex completed (required every 30 months)
	Risk Job/Hazard Training Needs Assessment Tool Completion of Required Training for BNL Employees 5/1/07 Training Records ERP Staff: William Needrith (contractor) Waste Management - Confined Space Expired 8/26/06; Thomas Jernigan (contractor) several courses expired - fall protection expired 9/30/06; Thomas Doyle (full time) several expired courses - Hazwoper expired 2/16/06.
	Training Records Life Sciences Staff: Mario Moscariello, John Lara, Richard Suutkulis, all required training completed. Criteria for Determining Job Qualification Requirements BTMS
	See Gordon notes pages 2-3

Processes	Location/Observations
	Identify process inputs and describe their interactions with the process:
Life Sciences	SBMS, BNL Objectives and Targets
Directorate	
4.2, 4.3.1, 4.3.3,	Process Objective(s):
4.3.4(o), 4.4.1, 4.4.2,	The objective of the process is to operate the Directorate in conformance with applicable
4.4.3, 4.4.4, 4.4.5, 4.4.6,	requirements of ISO 14001 and OHSAS 18000 and the requirements of DOE.
4.4.7, 4.5.3/4.5.2,	
4.5.4/4.5.3, 4.5.5/4.5.4,	Describe whether the process is effective or not:
4.6	The process is effective. Job Risk Analyses are performed. Operational controls are in place
	and effective. Internal audits are managed and management review conducted in inputed to the
	Laboratory management review. People are aware of the management systems and their roles
	and responsibilities. Hazardous waste control was tracked through laboratory operations.
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): Ann Emrick Training Coordinator, Stephen Ferrone EHS support, Bjorn Junker, Yorg Schuender, Thomas Langdon, Bob Colichio EHS support
	Leo Poloma, Lois Moller Bldg 860
	Occurrence Report SC BHSO-BNL-2006-014 Open 8/24/06-9/29/06 Lessons Learned DJ-2007-1; MO-2005-1
	Aspects List LS-EMSD Rev 1 10/06/2006
	EHMS Management System Life Sciences OSHAS 18001 Rev1 10/06/2006 BNL Fire/Rescue Group #52482 1/13/05
	WCF 8915 Non-radioactive waste control form submitted to Leo Poloma and Bldg 860 for
	processing and tracking. Waste in 90 day area are picked up after 60 days.
	Hazardous Waste Accumulation are Weekly Checklist all current from 1/19/07-5/14/07
	See Gordon notes pages 4-7
	See Gordon notes pages 1 /
	Identify process inputs and describe their interactions with the process:
Environmental	SBMS, BNL Objectives and Targets, Management Review
Restoration Program	Service, 21/2 cojevizyes unu 1u1geus, riumungement ite ite ii
(ERP)	Process Objective(s):
4.2, 4.3.1, 4.3.3, 4.3.4	The objective of the process is to conform to all requirements applicable to the Directorate.
(o), 4.4.1, 4.4.2, 4.4.3,	
4.4.5, 4.4.6, 4.4.7, 4.5.1,	Describe whether the process is effective or not:
4.5.3/4.5.2, 4.5.4/4.5.3,	The process is effective. The safety culture in this Directorate is very strong based on
4.5.5/4.5.4, 4.6	interviews throughout the organization. Strong operational controls are in place for work
,	planning and to assure that people have adequate training for safety and environmental issues.
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.):
	Bruce Lein Training Coordinator
	Brian Heneveld OSH Rep
	Keith Klaus EMS & Env Compliance
	Joe Mantalto QC
	Les Hill, ALD
	Management Review Minutes 9/21/06
	WI Access the Below Ground Ducts to Obtain Beryllium wipe sample SRC approved 5/14/07
	ERP-JRA-S&M-021 5/3/07
	Beryllium Sampling Plan 3/21/07
	Daily Safety Meeting Form 5/16/07
	HP-IHP 75505 5/16/07
	ERP Corrective Action Program & Condtition Reporting System ERP-07-03
	ERP OPM-2.2 Rev 1 2/01/07
	Condition Report ERP-07-33
	Safety Observation ERP-OPM 4.7 Rev 0

Processes	Location/Observations
	FY 2007 Objectives and Targets report 4/2/07
	ER SIP 9/23/05; 9/29/06
	Site Emergency Preparedness 5/15/03 See Gordon notes pages 7-9
	See Gordon notes pages 7-9
	Identify process inputs and describe their interactions with the process:
Counter Intelligence	SBMS, BNL Objectives and Targets, State Department Travel Notices
Office 4.2, 4.3.3, 4.3.4 (o),	Process Objective(s):
4.4.1, 4.4.2, 4.4.3, 4.4.6,	The objective of this process is to provide safety awareness within this office and for people
4.5.3/4.5.2	traveling on behalf of BNL.
	Describe whether the process is effective or not: Through the travel office. Risks are reported back to the travel office and communicated to the
	Through the travel office. Risks are reported back to the travel office and communicated to the traveler. The process is effective. The CI office provides safety related services for travelers,
	assessing risk based on destination. Travel requests come in tr They also have a strong
	internal commitment in this five person office. The have already implemented safety
	improvements; e.g. handrail and door repair.
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.):
	Randy Bielgelman, Senior Counter Intelligence Officer; Helen Todowson, Analysis
	Linda Sinatra, Manager of Foreign Travel (Travel Office); Objectives and Targets 5/18/07
	CI Office JRA Priority List Rev 1 9/19/06
	H&S Records Management System 6/12/06 JRA 04 Business Travel to Underdeveloped Countries
	See Gordon notes Page 9
	Identify process inputs and describe their interactions with the process:
Physics Department 4.2, 4.3.1, 4.3.3, 4.3.4	SBMS, BNL Objectives and Targets, Mangement Reviews
(0), 4.4.1, 4.4.2, 4.4.3,	Process Objective(s):
4.4.6, 4.4.7, 4.5.4/4.5.3,	The objective of the process is to manage the Physics Department to conform to the
4.6	requirements of the environmental health and safety management system while producing high
	quality research for its customers.
	Describe whether the process is effective or not:
	The process is effective. In addition to JRA development, the Department uses Experimental
	Safety Reviews for the safe control of experiments. Small amounts of waste are generated and
	properly handled.
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.):
	Ron Gill, EHS, Mike Zarcone, OHS, John Peters, Staff Support
	PO-LEP-01 Local Emergency Plan Rev 4.1 11/14/06
	PO- 2007-001 Aspects reviewed 4/09/07 Experimental Safety Review Form 4.1 2006
	PO-JRA-020-0.doc 10/29/04
	PO-JRA 005.1 doc
	90 day hazardous waste storage inspection sheets form 1/3/07-5/23/07 review
	See Gordon notes pages 10-11
	Identify process inputs and describe their interactions with the process:
Instrumentation	SBMS, BNL Objectives and Targets, Management Review, BNL requirements
Division	
4.2, 4.3.1, 4.3.3,	Process Objective(s):

Processes	Location/Observations									
4.3.4(o), 4.4.1, 4.4.2,	The objective of the process is to manage the Instrumentation Division operations to be in									
4.4.3, 4.4.5, 4.4.6, 4.4.7,	conformance with requirements of the EHS Management System requirements while providing									
4.6	detectors for the Laboratory and other customers.									
	Describe whether the process is effective or not:									
	The process is effective. Hazardous waste has been reduced significantly over the last six									
	years. Activity Risk Analysis supplement the JRA to provide specific safety guidance.									
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.):									
	Robert DiNardo									
	Dr. Veljko Radeka, Division Head									
	Dr Graham Smith, Line Manager Gas and Liquid Detectors									
	Management Review December 14, 06									
	ASR 08 Gas & Liquid Sensors									
	ASR 13 90 Day Accumulation Area									
	IO JRA 05 10/31/05									
	IO JRA 15 8/31/05									
	IO JRA 08 8/30/05									
	ESH Management System Rev 6 3/1/07									
	See Gordon notes pages 12-13									
	Identify managed inputs and describe their interactions with the managed									
Finance Directorate	Identify process inputs and describe their interactions with the process: Budgets, SBMS, Objectives and Targets, Management Review, BNL Requirements									
4.1, 4.2, 4.3.1, 4.3.3,	Budgets, Shivis, Objectives and Targets, Management Review, BIVE Requirements									
4.3.4(o), 4.4.1, 4.4.2,	Process Objective(s):									
4.4.3, 4.4.5, 4.4.6, 4.4.7	The objective of the process is to manage the Finance Directorate to assure the its									
4.4.3, 4.4.3, 4.4.0, 4.4.7	environmental and safety operations conform to management system requirements.									
	environmental and safety operations comoffin to management system requirements.									
	Describe whether the process is effective or not:									
	The process is effective. The finance department has no significant aspects and little health									
	and safety risk beyond ergonomics. But their people are aware of the risks they have. The									
	managed the move into the new building well.									
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.):									
	April Gray, OS Representative, Administrative Specialist									
	Fred Benjamin, Accountant Barbara Juliano Contract Pay									
	Charlotte Buck, Payroll									
	Cynthia Von Gerichten,									
	Richard Melucci, Budget Officer									
	Maureen McDonnell									
	Bldg Evacuation Drill Results 4/13/07									
	See Gordon notes pages 14-15									
	Identify process inputs and describe their interactions with the process:									
Human Resources/	SBMS, Injury Reports, BNL Requirements, Objectives and Targets									
Occupational Healthe										
and Safety	Process Objective(s):									
4.2, 4.3.1, 4.3.3,	The objective of the process is to provide quality administrative and health services for all									
4.3.4(o), 4.4.1, 4.4.2,	BNL staff while maintaining an environmentally and occupationally safe environment.									
4.4.3, 4.4.5, 4.4.6, 4.4.7,	Describe whether the muccess is offer the control to									
4.5.1(o), 4.5.2(o),	Describe whether the process is effective or not: The process is effective. Occupational Health Clinic is running processive health core.									
4.5.3(0)	The process is effective. Occupational Health Clinic is running proactive health care									
	programs. They have targets and programs for reducing rehabilitation times. Those targets									

Processes	Location/Observations
	will now become part of OHSAS. Environmental wastes have been reduce in Xray
	(developer, etc). Management has been very responsive to Safety Committee issues (Positive
	Practice).
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.):
	Terry Maugeri, Senior Administrator, OS Rep
	Dr. Falco
	Donna Dowling, Labor Relations Lawing Parana Senior Hyman Pagaurage Aggistant (Chaira Safaty Committee)
	Louisa Barone Senior Human Resources Assistant (Chairs Safety Committee) Liz Gilbert, Safety Committee/Tier 1 Auditor
	Occupational Medicine Clinic FY 2007 Objectives and Targets
	OMC Self Assessment 1/24/07
	MR 9/22/07
	BOSH 4 Corrective Action
	HROM Safety meeting Minutes 4/30/2007
	Quarterly Tier 1 Reports 12/11/06 & 4/2/07
	Child Care not audited
	See Gordon pages 15-16
	Identify process inputs and describe their interactions with the process:
Intellectual Property,	Research Proposals, Patents, SBMS, BNL Requirements, FRAs, JRAs
Sponsored Research,	
and Integrated	Process Objective(s):
Planning	The objectives of the processes are managing interagency and other research and site wide
4.2, 4.3.1, 4.3.3,	integrated planning using environmentally and occupationally safe practices.
4.3.4(o), 4.4.1, 4.4.2,	
4.4.3, 4.4.5, 4.4.6, 4.4.7,	Describe whether the process is effective or not:
4.5.1	The process is effective. The processes are primarily administrative. ESH tools are used
	appropriately. Staff recently moved into Bldg 185 using safe practices learned from other
	facilities using Lessons Learned (good preventive action)/
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.):
	Mike Fury, Sponsored Research
	Doug Ports, Integrated Planning
	Christine Brackel, Licensing Specialist
	Jinny Coccoreses, Administrative Specialist
	NF-07-16 Information Questionaire (ESH questions for sponsored research proposals)
	NEPA Memo from Fury 4/10/07
	NEPA Memo from Davis 4/15/07
	O&Ts FY 2007 5/17/07
	Relocation Plans & Safety Discussions 5/08/07
	Work Space Inspection 5/21/07 (verification J Porter noticed flammable material in front of a
	spark source) JRA Office Work 10/31/06
	Facility Use Agreement Bldg 185 FUA-185-2000-04-01 June 2007
	Tacinty Osc Agreement Blug 183 FOA-183-2000-04-01 June 2007
	Identify process inputs and describe their interactions with the process:
Legal & Other,	The legal and other requirements have been identified by subject matter: Safety, Health
Compliance	(SHSD) and Environmental. Each area has developed a very detailed list of requirements.
4.3.2,	Safety: Requirements Management, SE50700, 10/3/06
4.5.1, 4.5.2	Industrial Hygiene: Requirements Management, IH50700, 04/20/07
Environmental,	Environmental: EMS from SBMS, pages 13-23, 5/21/07
OH&S:	During the audit, each manager interviewed provided records to demonstrate how changes or
	updates of the regulations are communicated. BNL utilizes a process called Record of Decision
	and effectively communicates changes and interpretation through this process. The safety and

Processes	Location/Observations									
	health departments review their requirements on a quarterly basis as described by the SMEs and as defined in the procedures. The environmental department reviews the BNA updates twice per month. The site publishes an Annual Summary document for the public. This provides history and current data regarding projects taking place at BNL and informs interested parties executive summaries regarding the site's performance with respect to EH&S and special research studies.									
	Process Objective(s): To ensure that BNL is informed of legal and other requirements for EH&S compliance.									
	Describe whether the process is effective or not: All 3 areas demonstrated knowledge and expertise in the understanding of applicable legal and other requirements.									
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): See details from notes. Interviews were conducted with the S&H Division Managers and Directorate Head. Documentation reviewed included legal and other registers, the reference library (safety), permits (environmental), and inspection records.									
CEGPA E/OHS: 4.3.1, 4.3.3, 4.3.4-O, 4.4.6, 4.5.1	Identify process inputs and describe their interactions with the process: Publications/Printing: Environmental Aspects included paint and alcohol; Safety Hazards included noise and ergonomics. Community Relations: Aspects are minimal; Safety hazards are building evacuation and public safety. Educational Programs: Student programs present a diverse set of hazards and risks. Those presented were traffic safety, recycling efforts and participation in the management systems as applicable. Process Objective(s): To facilitate internal and external communication for the laboratory. BNL has a very high profile both in the local community and with Department of Energy. They are very proactive in the media relations areas and community outreach and this was noted with the ribbon cutting ceremony on day 1 of the audit, for their new Nano-Technology building. Also, internal publications reviewed were very impressive.									
	Describe whether the process is effective or not: The departments are working collaboratively to integrate their reporting programs and this was noted as a good practice. The Directorate places an important role for the laboratory and demonstrated their responsibilities effectively during this audit.									
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): See details from notes. The following departments were audited for this Directorate: Community Relations; Media, Communications & Production (printing), Educational Programs (Students programs). Representatives for each were available and vey cooperative and informative.									
BESD E/OHS: 4.3.1, 4.3.3, 4.3.4-O, 4.4.6, 4.5.1	Identify process inputs and describe their interactions with the process: A variety of techniques are used by this Directorate for planning and maintaining safe work practices and potential environmental hazards. This group focuses on ESRs which are reviewed annually. However, SAFs were developed along with JRA's as part of OHSAS implementation. There were several examples provided and found to be very detailed and included revisions based on lessons learned from other sites. This group has quarterly safety									

Processes	Location/Observations									
	committee meetings, and quarterly ES&H meetings. Objectives and targets are developed to include the PEMPs.									
	Process Objective(s): The objectives for this Directorate are unique. In order to address the new CFN, they initiated a "Jump Start" program for future users. This was a very impressive method for planning. Potential risks and hazards were identified an addressed prior moving into the building.									
	Describe whether the process is effective or not: The SME's were effective in their presentation and interviews of their employees and student interns were exemplary.									
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): See details from notes. The following departments were audited from the Directorate: Chemistry Department: Interviews Physics Department: Interviews CFN Building- tour only									
NSLS E/OHS: 4.3.1, 4.3.3, 4.3.4-O, 4.4.6, 4.5.1	Identify process inputs and describe their interactions with the process: There are 38 JRAs and 9FRAs for the Light Source group. Their primary significant aspects are waste, chemical storage, liquid discharge and air discharges. They currently have notable operational controls in place as demonstrated during this audit. Waste storage area is controlled by key access and inventory logs are maintained in the building. Signage was very effective. Training records were available as requested for a recent change in a work practice. The Tier 1 tracking spreadsheet maintained is very informative. Sorting by types of incidents, etc. was helpful during this audit, to confirm applicable corrective and preventive action measures are taken.									
	Process Objective(s): This Directorate has a very informed and involved management group. The participation and openness was very helpful in ensuring that, with the 2000+ users of this building, the management takes EH&S planning very seriously and it is well documented. A tour was provided. During the tour, display of visual aids was noted as a noteworthy practice and waste storage areas were seen to be in neat and orderly manner.									
	Describe whether the process is effective or not: This Directorate has demonstrated "noteworthy practices each year" and has been effective in the planning process for the CFN and the new Light Source programs coming on line currently and in the near future. Additionally, because of the volume of "users" of this program, the scrutiny of planning and communication is also to be noted as exemplary. Due to the Lab being down for maintenance, a full tour was provided. Also, a tour of the outside grounds found housekeeping to be in order. Also, a demonstration of the electronic Tier 1 tracking system was provided and found to be effectively utilized.									
	The new light source personnel have approved their first EMS procedure and plan to have their EMS registration ready by 2008.									
	Describe the Process (personnel interviewed, training, job relevance, policy, etc.): The following personnel were interviewed: 1-EH&S Management Rep. for the existing Light Source Program 2-appointed Manager for the new Light Source building which is currently under construction.									

READINESS REVIEW - N/A

READINESS REVIEW – N/A
Does the Company have any Proprietary Processes? If yes, please explain how these processes will be audited in the future.
Status of desk audit issues:
(The auditor shall document the status of issues identified during the Desk Audit Review. Any issue that was not closed during this visit should be written as a CAR.) NOTE - In the audit note section, please discuss what was reviewed during the ORR audit.
RE-ASSESSMENT ONLY:
Has the organization demonstrated an effective interaction between all requirements and/or the processes of the system? Yes* No If no, explain: *While there is evidence of effective interaction – it remains somewhat weakened by the ongoing struggles to create a truly lab-wide management system (E & OSH) that accounts for an appropriate level of autonomy among the directorates but provides an overarching and consistent set of requirements that are understood and effectively implemented by all members of the Lab. Continuing efforts to integrate the systems, "upgrade" the OSHMS documentation into the SBMS and other similar activities should help to overcome this current weakness.
(Lead Auditor should provide a brief summary – either narrative or bullets - of the objective evidence that supports a no answer above. Refer to audit notes and CARs where appropriate.)
In light of changes in operations and/or management system enhancements and improvements during the previous 3-year registration cycle, has the organization been able to maintain an overall effective Management System? Yes No If no, explain:
(Lead Auditor should provide a brief summary – either narrative or bullets - of the objective evidence that supports a negative answer above. Focus this section of the report on weaknesses of the system in the face of changes that have occurred in operations or the management system since the initial registration. Refer to audit notes, or CARS where appropriate.)
Has the organization's top management demonstrated a commitment to maintain the effectiveness and improvement of the management system in order to enhance its overall performance? Yes No If no, explain:
(Lead Auditor should provide a brief summary – either narrative or bullets - of the objective evidence that supports a negative answer above. Refer to audit notes, and CARs where appropriate.)
Does the company's documented system continue to address the requirements of the audit standard? ☑ Yes ☐ No If no, explain:
(Lead auditor should provide a brief summary for a negative answer on whether the company's documentation addresses the requirements of the audit standard. The appropriate desk audit summary form should be completed and attached to this report.)

Customer: Brookhaven National Lab FRS#: 69525 Audit Team: Clayman, Sprague

EMS AUDIT SUMMARY MATRIX FOR 3 YEAR REGISTRATION CYCLE

MAJOR PROCESSES	R	V1	V2	V3	V4	V5	Key	Clause	Description	R	V1	V2	V3	V4	V5
NSLS	X		X				-	4.2	4.2 Environmental Policy						
Collider-Accelerator Dept.	X		X				-	4.3	Planning						
Superconduct'g-Magnet Div.	X		X				-	4.3.1	Environmental Aspects	X		X			
EENS Directorate	X		X				-	4.3.2	Legal and Other Requirements	X		P			
Basic Energy Sciences	X		X				E	4.3.3	Objectives, Targets and Programs	X		X			
Life Sciences Dir.	X		X				-	4.4	Implementation/Operation						
Physics Department	X		X				-	4.4.1	Resources, Roles, Responsibility & Authority	X		P			
Instrumentation Division	X						-	4.4.2	Competence, Training & Awareness	X		X			
Counterintelligence Office	X						-	4.4.3	Communication	X		P			
NSLS	X							4.4.4	Documentation	X		X			
							-	4.4.5	Control of Documents	X		P			
							-	4.4.6	Operational Control	X		X			
							-	4.4.7	Emergency Preparedness & Response	X					
							-	4.5 Checking/Corrective Action							
							E	4.5.1 Monitoring and Measurement		X		P			
							A	4.5.2	Evaluation of Compliance	X					
SUPPORT PROCESSES							E	E 4.5.3 Nonconformity, Corrective and 1/0 X Preventive Action		X					
Facilities & Operations Dir.	X		X				-	4.5.4	Control of Records	X					
ESHQD	X		X				E	4.5.5	Internal Audit	X		X			
Env. Restoration Projects Dir	X		X				Е	4.6	Management Review	X		X			
Management/Administration	X						•								
Int. Audit/Oversight Office	X						•								
Diversity Office	X						-								
Info. Tech/Info. Svcs. Div.	X														
Finance Directorate	X														
HR/Occupational Medicine	X														
Legal, OIP/Sponsored Res., IP Offices	X								CAR's ISSUED PER VISIT Minor/Major	1/0		2/0			

KEY (related to Standard Section only not Process Section): A=Annually; E=Every visit; (-) = Over 3 year cycle R= Registration or Reassessment; V#=Surv. Visits;

X = Processes and requirements audited this visit; **P** = partially audited. Leave blank if not audited. **NA** – not Applicable. CARs – (Minor/Major)

Any CAR written shall be identified in the requirement section of the form with the # of CAR (s) written for that specific requirement, i.e., 2 minors and 1 major for 7.6 would be written as 1/2 in section 7.6 of the form. No need to have **X** if a CAR is issued for a requirement.

This is a cumulative form and is used for all audits in the 3 year cycle – YOU WILL NOT USE A NEW SHEET FOR EVERY AUDIT!

Customer: Brookhaven National Lab FRS#: 69527, 69528 Audit Team: Clayman, Sprague

OHSAS 18001 AUDIT SUMMARY MATRIX FOR 3 YEAR REGISTRATION CYCLE

MAJOR PROCESSES	R	V1	V2	V3	V4	V5	Key	Clause	Description	R	V1	V2	V3	V4	V5
NSLS	X		X					4.1	General Requirements	X					
Collider-Accelerator Dept.	X		X				-	4.2	OH&S Policy	X					
Superconduct'g-Magnet Div.	X		X				-	4.3	Planning						
EENS Directorate	X		X				-	4.3.1	Planning for Hazard Identification, Risk Assessment and Risk Control	X		X			
Basic Energy Sciences	X		X				-	4.3.2	Legal and Other Requirements	X		P			
Life Sciences Dir.	X						E	4.3.3	Objectives	X		X			
Physics Department	X		X					4.3.4	OH&S Management Programs	X		X			
Instrumentation Division	X		X				-	4.4	Implementation/Operation						
Counterintelligence Office	X						-	4.4.1	Structure and Responsibility	X		P			
-							-	4.4.2	Training, Awareness & Competence	X		X			
							-	4.4.3	Consultation & Communication	X		P			
								4.4.4	Documentation	X		X			
							-	4.4.5	Documents and Data Control	X		P			
							-	4.4.6	Operational Control	X		X			
SUPPORT PROCESSES							-	4.4.7	Emergency Preparedness &						
Facilities & Operations Dir.	X		X				E	4.5.1	Performance Measuring and Monitoring	X		Р			
ESHQD	X		X				A	4.5.2	Accidents, Incidents, Non-conformances and Corrective and Preventive Actions	X		P			
Env. Restoration Projects Dir	X						-	4.5.3	Records and Records Management	X					
Management/Administration	X						E	4.5.4	Audit	X		X			
Int. Audit/Oversight Office	X						E	4.6	Management Review	X		X			
Diversity Office	X						-								
Info. Tech/Info. Svcs. Div.	X						-								
Finance Directorate	X														
HR/Occupational Medicine	X														
Legal, OIP/Sponsored Res., IP Offices	X								CAR's ISSUED PER VISIT Minor/Major	0		1/0			

KEY (related to Standard Section only not Process Section): A=Annually; E=Every visit; (-) = Over 3 year cycle R= Registration or Reassessment; V#=Surv. Visits;

X = Processes and requirements audited this visit; P = partially audited. Leave blank if not audited. NA – not Applicable. CARs – (Minor/Major)

Any CAR written shall be identified in the requirement section of the form with the # of CAR (s) written for that specific requirement, i.e., 2 minors and 1 major for 4.6 would be written as 2/1 in section 4.6 of the form. No need to have **X** if a CAR is issued for a requirement.

This is a cumulative form and is used for all audits in the 3 year cycle – YOU WILL NOT USE A NEW SHEET FOR EVERY AUDIT!

Attachments to be filed with the Audit Report:	
□ Quote □ Quote	Support for closure of CARs
☐ Desk Audit Issues Summary Page (as necessary)	
<u>Attachments</u>	
Audit Confirmation Letter and Schedule	
Audit Evidence/Notes – Clayman, Sprague, Bellen, Henderlight	

CONFIDENTIAL

19 April 2007

Ms. Pat Williams Brookhaven National Laboratory 40 Brookhaven Avenue, Building 130 Upton, NY 11973-5000 Mr. John Selva Brookhaven National Laboratory Building 535Z Technology Street P.O. Box 5000 Upton, NY 11973-5000

RE: EMS & OSHMS Reassessment Confirmation Letter and Schedule Brookhaven National Laboratory – Upton, NY FRS #69525 & 69528

Dear Ms. Williams and Mr. Selva:

This letter is to confirm that the OHSAS 18001:1999 and ISO 14001:2004 Reassessment of the Brookhaven National Laboratory (BNL) are scheduled to begin around 8:00 a.m. on Monday, May 21, 2007 and conclude during the afternoon of Friday, May 25, 2007. This audit will include our review of the BNL Environmental Management System (EMS) for its conformance to the ISO 14001:2004 standards, along with review of the Lab's Occupational Safety & Health Management System (OSHMS) for ongoing conformance to the OHSAS 18001:1999 requirements. The attached tentative audit schedule has been developed for these activities.

The NSF-ISR audit team will consist of me Ken Clayman, Lead Auditor, and Briana Sprague, Dawn Henderlight and Gordon Bellen as the Team Auditors. While on site, the audit team will need:

- Escorts who are familiar with the different facilities to accompany each auditor (need not be the same person during the entire audit).
- A conference room in which the opening and closing meeting can be conducted.
- A room in which the audit team can caucus periodically. A telephone and computer with access to the electronically based SBMS and E/OSH MS information in the room would be extremely helpful.

Please give me a call at (540) 220-5041 or contact at kaclayman@gmail.com, if you have any questions about these plans, or encounter any unexpected circumstances that could affect the schedule.

Sincerely yours,

NSF-ISR, Ltd.

Kenneth A. Clayman Lead Auditor

Connett A. Clayman

Attachment

cc: Audit Team BNL File

Facility I.D. No. 69525 & 69528 – Brookhaven Nat'l. Lab	Date(s): 21-25 May 2007			
Auditor: Ken Clayman (Lead)	Auditor: Briana Sprague			

Day 1 – 21 May 2007

TIME	LOCATION/DEPT/FUNCTION *	TIME	LOCATION/DEPT/FUNCTION *
0800	Auditors Arrive – Security/Badging, etc.	0800	Auditors Arrive – Security/Badging, etc.
0845	Opening Meeting	0845	Opening Meting
0915	Review of FRS', Changes to Organization, Use of NSF Mark	0915	Programmatic Reviews – Scope of Systems, Documentation, Document Control, Records Management
1000	Management Commitment/Involvement – Interviews with Lab Director, Management Representatives and Leadership Team Members (separately)		
1215	Lunch	1215	Lunch
1300	Audit Team Caucus	1300	Audit Team Caucus
1315	Continue Interviews with Lab Leadership	1315	Lab-wide Emergency Planning & Response (Cover F&O-Emergency Services and Safeguards & Security Divisions at the same time)
1515	Lab-wide Objectives/Targets/Management Programs (E&OSH)		
1645	Audit Team Caucus	1645	Audit Team Caucus
1715	Daily Debrief	1715	Daily Debrief
1745	Audit Team Departs	1745	Audit Team Departs

Note: During auditing in specified divisional areas, Auditors will be evaluating the extent of the E/OSH MS implementation and the effective implementation of the system in these functional locations. This will include assessment for conformance to requirements found in Clauses 4.2, 4.3, 4.4, 4.5 and 4.6 of both Standards as applicable.

Revision – 5/4/07

^{*} Review of findings from previous audit visits will occur during the appropriate period when those subjects are under review/discussion and in the Directorates/Divisions/Departments where they were identified.



F	acility I.D. No. 69525 & 69528 – Brookhaven Nat'l. Lab	Date(s): 21-25 May 2007	
A	uditor: Dawn Henderlight	Auditor: Gordon Bellen	

Day 1 − 21 May 2007

TIME	LOCATION/DEPT/FUNCTION *	TIME	LOCATION/DEPT/FUNCTION *
0800	Auditors Arrive – Security/Badging, etc.	0800	Auditors Arrive – Security/Badging, etc.
0845	Opening Meting	0845	Opening Meting
0915	Lab Overview Presentation and Tour – Includes review of ESSH Policy, Environmental Aspects/Impacts, H&S Hazards/Risks, Establishment of Objectives/Targets, Management Systems R2A2s	0915	Lab Overview Presentation and Tour – Includes review of ESSH Policy, Environmental Aspects/Impacts, H&S Hazards/Risks, Establishment of Objectives/Targets, Management Systems R2A2s
1215	Lunch	1215	Lunch
1300	Audit Team Caucus	1300	Audit Team Caucus
1315	Complete morning activities	1315	Complete morning activities
1415	Legal/Other Requirements, Compliance Evaluation/Monitoring	1415	Comptence, Training & Awareness; External Communications
1645	Audit Team Caucus	1645	Audit Team Caucus
1715	Daily Debrief	1715	Daily Debrief
1745	Auditors Depart	1745	Auditors Depart

Note: During auditing in specified divisional areas, Auditors will be evaluating the extent of the E/OSH MS implementation and the effective implementation of the system in these functional locations. This will include assessment for conformance to requirements found in Clauses 4.2, 4.3, 4.4, 4.5 and 4.6 of both Standards as applicable.

Revision - 5/4/07 34

^{*} Review of findings from previous audit visits will occur during the appropriate period when those subjects are under review/discussion and in the Directorates/Divisions/Departments where they were identified.



Facility I.D. No. 69525 & 69528 – Brookhaven Nat'l. Lab		Date(s): 21-25 May 2007	
	Auditor: Ken Clayman (Lead)	Auditor: Briana Sprague	

Day 2 - 22 May 2007

TIME	LOCATION/DEPT/FUNCTION *	TIME	LOCATION/DEPT/FUNCTION *
0815	Auditors Arrive	0815	Auditors Arrive
0830	Continue/complete audit activities from Day 1	0830	Continue/Complete ESD/SSD – Add remainder of F&O Directorate (including Procurement & Property Management Division (PPMD))
0930	Internal Audit, Corrective/Preventive Action, Management Review – Lab Wide		
1200	Lunch	1200	Lunch
1245	Audit Team Caucus	1245	Audit Team Caucus
1300	Prepare for/audit Collider-Accelerator Department (C-AD)/ Superconducting Magnet Division (SMD)	1300	Continue F&O
1615	Audit Team Caucus	1615	Audit Team Caucus
1645	Daily Debrief	1645	Daily Debrief
1715	Auditors Depart	1715	Auditors Depart

Note: During auditing in specified divisional areas, Auditors will be evaluating the extent of the E/OSH MS implementation and the effective implementation of the system in these functional locations. This will include assessment for conformance to requirements found in Clauses 4.2, 4.3, 4.4, 4.5 and 4.6 of both Standards as applicable.

Revision – 5/4/07

^{*} Review of findings from previous audit visits will occur during the appropriate period when those subjects are under review/discussion and in the Directorates/Divisions/Departments where they were identified.



Facility I.D. No. 69525 & 69528 – Brookhaven Nat'l. Lab		Date(s): 21-25 May 2007	
Auditor: Dawn Henderlight		Auditor: Gordon Bellen	

Day 2 - 22 May 2007

TIME	LOCATION/DEPT/FUNCTION *	TIME	LOCATION/DEPT/FUNCTION *
0815	Auditors Arrive	0815	Auditors Arrive
0830	Prepare for/Audit Community Education, Government & Public Affairs (CEGPA) Directorate	0830	Prepare for/Audit Life Sciences Directorate
1200	Lunch	1200	Lunch
1245	Audit Team Caucus	1245	Audit Team Caucus
1300	Continue/Complete CEGPA	1300	Complete Life Sciences Directorate
			Prepare for/Audit Environmental Restoration Projects (ERP), Counterintelligence Office (CO)
1615	Audit Team Caucus	1615	Audit Team Caucus
1645	Daily Debrief	1645	Daily Debrief
1715	Auditors Depart	1715	Auditors Depart

Note: During auditing in specified divisional areas, Auditors will be evaluating the extent of the E/OSH MS implementation and the effective implementation of the system in these functional locations. This will include assessment for conformance to requirements found in Clauses 4.2, 4.3, 4.4, 4.5 and 4.6 of both Standards as applicable.

* Review of findings from previous audit visits will occur during the appropriate period when those subjects are under review/discussion and in the Directorates/Divisions/Departments where they were identified.

Revision – 5/4/07



Facility I.D. No. 69525 & 69528 – Brookhaven Nat'l. Lab		Date(s): 21-25 May 2007	
	Auditor: Ken Clayman (Lead)	Auditor: Briana Sprague	

Day 3 – 23 May 2007

TIME	LOCATION/DEPT/FUNCTION *	TIME	LOCATION/DEPT/FUNCTION *
0815	Auditors Arrive	0815	Auditors Arrive
0830	Continue C-AD/SMD	0830	Complete F&O
			Prepare for/Audit Energy, Environment & National Security (EENS) Directorate
1200	Lunch	1200	Lunch
1245	Audit Team Caucus	1245	Audit Team Caucus
1300	Complete C-AD/SMD	1300	Continue EENS
1430	Prepare for/Audit Environmental, Safety, Health & Quality (ESHQ) Directorate		
1615	Audit Team Caucus	1615	Audit Team Caucus
1645	Daily Debrief	1645	Daily Debrief
1715	Auditors Depart	1715	Auditors Depart

Note: During auditing in specified divisional areas, Auditors will be evaluating the extent of the E/OSH MS implementation and the effective implementation of the system in these functional locations. This will include assessment for conformance to requirements found in Clauses 4.2, 4.3, 4.4, 4.5 and 4.6 of both Standards as applicable.

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Revision – 5/4/07



Facility I.D. No. 69525 & 69528 – Brookhaven Nat'l. Lab	Date(s): 21-25 May 2007
Auditor: Dawn Henderlight	Auditor: Gordon Bellen

Day 3 – 23 May 2007

TIME	LOCATION/DEPT/FUNCTION *	TIME	LOCATION/DEPT/FUNCTION *
0815	Auditors Arrive	0815	Auditors Arrive
	Prepare for/Audit Basic Energy Sciences Directorate (BESD)	0830	Complete ERP/CO
			Prepare for/audit Physics Department and Instrumentation Division
1200	Lunch	1200	Lunch
1245	Audit Team Caucus	1245	Audit Team Caucus
1300	Continue/Complete BESD	1300	Continue/Complete Physics, Instrumentation
1615	Audit Team Caucus	1615	Audit Team Caucus
1645	Daily Debrief	1645	Daily Debrief
1715	Auditors Depart	1715	Auditors Depart

Note: During auditing in specified divisional areas, Auditors will be evaluating the extent of the E/OSH MS implementation and the effective implementation of the system in these functional locations. This will include assessment for conformance to requirements found in Clauses 4.2, 4.3, 4.4, 4.5 and 4.6 of both Standards as applicable.

* Review of findings from previous audit visits will occur during the appropriate period when those subjects are under review/discussion and in the Directorates/Divisions/Departments where they were identified.

Revision - 5/4/07 38



Facility I.D. No. 69525 & 69528 – Brookhaven Nat'l. Lab		Date(s): 21-25 May 2007	
	Auditor: Ken Clayman (Lead)	Auditor: Briana Sprague	

Day 4 - 24 May 2007

TIME	LOCATION/DEPT/FUNCTION *	TIME	LOCATION/DEPT/FUNCTION *
0815	Auditors Arrive	0815	Auditors Arrive
0830	Continue ESHQD	0830	Complete EENS
			Prepare for/audit Internal Audit & Oversight Office, Diversity Office
1200	Lunch	1200	Lunch
1245	Audit Team Caucus	1245	Audit Team Caucus
1300	Complete ESHQD	1300	Prepare for/audit Information Technology and Information Services Divisions (including Computational Science Center)
1615	Audit Team Caucus	1615	Audit Team Caucus
1645	Daily Debriefing	1645	Daily Debriefing
1715	Auditors Depart	1715	Auditors Depart

Note: During auditing in specified divisional areas, Auditors will be evaluating the extent of the E/OSH MS implementation and the effective implementation of the system in these functional locations. This will include assessment for conformance to requirements found in Clauses 4.2, 4.3, 4.4, 4.5 and 4.6 of both Standards as applicable.

* Review of findings from previous audit visits will occur during the appropriate period when those subjects are under review/discussion and in the Directorates/Divisions/Departments where they were identified.

Revision – 5/4/07



Facility I.D. No. 69525 & 69528 – Brookhaven Nat'l. Lab		Date(s): 21-25 May 2007	
ı	Auditor: Dawn Henderlight	Auditor: Gordon Bellen	

Day 4 - 24 May 2007

TIME	LOCATION/DEPT/FUNCTION *	TIME	LOCATION/DEPT/FUNCTION *
0815	Auditors Arrive	0815	Auditors Arrive
0830	Prepare for/audit National Synchotron Light Source (NSLS) Department/Light Soruces Directorate	0830	Prepare for/audit Finance Directorate
1200	Lunch	1200	Lunch
1245	Audit Team Caucus	1245	Audit Team Caucus
1300	Continue/Complete NSLS	1300	Continue/Complete Finance Directorate
		1430	Prepare for/audit Human Resources & Occupational Medicine Division, and Integrated Planning Office
1615	Audit Team Caucus	1615	Audit Team Caucus
1645	Daily Debriefing	1645	Daily Debriefing
1715	Auditors Depart	1715	Auditors Depart

Note: During auditing in specified divisional areas, Auditors will be evaluating the extent of the E/OSH MS implementation and the effective implementation of the system in these functional locations. This will include assessment for conformance to requirements found in Clauses 4.2, 4.3, 4.4, 4.5 and 4.6 of both Standards as applicable.

Revision - 5/4/07 40

^{*} Review of findings from previous audit visits will occur during the appropriate period when those subjects are under review/discussion and in the Directorates/Divisions/Departments where they were identified.



Facility I.D. No. 69525 & 69528 – Brookhaven Nat'l. Lab		Date(s): 21-25 May 2007	
	Auditor: Ken Clayman (Lead)	Auditor: Briana Sprague	

Day 5 – 25 May 2007

TIME	LOCATION/DEPT/FUNCTION *	TIME	LOCATION/DEPT/FUNCTION *
0815	Auditors Arrive	0815	Auditors Arrive
1 11X 311	Audit Trail Follow-up/Completion of Evidence Collection		Audit Trail Follow-up/Completion of Evidence Collection
1145	Lunch	1145	Lunch
1245	Audit Team – Report Preparation	1245	Audit Team – Report Preparation
1515	Closing Meeting	1515	Closing Meeting
1545	Audit Team Departs	1545	Audit Team Departs

Note: During auditing in specified divisional areas, Auditors will be evaluating the extent of the E/OSH MS implementation and the effective implementation of the system in these functional locations. This will include assessment for conformance to requirements found in Clauses 4.2, 4.3, 4.4, 4.5 and 4.6 of both Standards as applicable.

* Review of findings from previous audit visits will occur during the appropriate period when those subjects are under review/discussion and in the Directorates/Divisions/Departments where they were identified.

Revision – 5/4/07 41



Facility I.D. No. 69525 & 69528 – Brookhaven Nat'l. Lab		Date(s): 21-25 May 2007	
ı	Auditor: Dawn Henderlight	Auditor: Gordon Bellen	

Day 5 – 25 May 2007

TIME	LOCATION/DEPT/FUNCTION *	TIME	LOCATION/DEPT/FUNCTION *
0815	Auditors Arrive	0815	Auditors Arrive
0830	Prepare for/audit Office of Intellectual Property & Sponsored Research	0830	Prepare for/audit Legal Office
		1 ()()()	Audit Trail Follow-up/Completion of Evidence Collection
1030	Audit Trail Follow-up/Completion of Evidence Collection		
1145	Lunch	1145	Lunch
1245	Audit Team – Report Preparation	1245	Audit Team – Report Preparation
1515	Closing Meeting	1515	Closing Meeting
1545	Audit Team Departs	1545	Audit Team Departs

Note: During auditing in specified divisional areas, Auditors will be evaluating the extent of the E/OSH MS implementation and the effective implementation of the system in these functional locations. This will include assessment for conformance to requirements found in Clauses 4.2, 4.3, 4.4, 4.5 and 4.6 of both Standards as applicable.

* Review of findings from previous audit visits will occur during the appropriate period when those subjects are under review/discussion and in the Directorates/Divisions/Departments where they were identified.

Revision - 5/4/07 42

Facility Record Sheet

NSF International Strategic Registrations, LTD

789 N. Dixboro Road Ann Arbor, MI 48105 Tel: (734) 827-6800



Corporate Nar	me Brookhaven Nati	onal Laboratory	1	(Corporate 69520
Address 1 Address 2 Address 3 Address 4	Building 460 Brookhaven Avenue P.O. Box 5000	e			
City Toll Free	Upton Ext	State New York	Postal Fax	I 11973-5000	Country US
EMS Rep QMS Rep HACCP Rep			Ph	none none none	Ext Ext Ext
Facility Name	Brookhaven Natio	nal Laborator	у		FRS 69525
Address 1 Address 2 Address 3 Address 4	860 Building 460 Brookhaven Avenu P.O. Box 5000 E. 5th Street	÷			
	Upton L.I. George Goode goode@bnl.gov (631) 344-4549 Ext	State New York Tol	Postal Code	e 11973-5000 Ext	Country US
Contact Fax Backup Contact	(631) 344- 5812 3223 John Selva	_	ional Sales Manager Cinc gistration Specialist Kare	-	327-6843)
Facility Shippii	ng Address		☐ Che	ck here if same	as Facility Address
Facility Name Facility Contact Address 1 Address 2 Address 3 Address 4	Brookhaven National Laboratory Mr. George Goode Building 860 P.O. Box 5000 E. 5th Street				
City	Upton L.I.	State New York	Postal	11973-5000	Country US
Facility Billing	Address		☐ Che	eck here if same	as Facility Address
Facility Name Facility Contact Address 1 Address 2 Address 3 Address 4	Brookhaven National Laboratory Carol Ogeka ESHQ Directorate Bldg 120				
City	Upton	State New York	Postal	11973	Country US

ISO 14001:2004

Program Status* Listed FRS 69525

*If the status is Audit Only then the company does not have its own scope or certificate but is referenced on another certificate.

Scope of Registration

Facilities, experiments, and operations managed by Brookhaven Science Associates at Brookhaven National Laboratory in accordance with the Environmental Management System.

Exclusions	Product Design		
Accreditation Marks	ANAB-EMS	Certificate Number	69525-E3
Audit Frequency	12 Month(s)	Certificate Issue Date	08/10/2005
Lead Auditor	Kenneth A. Clayman	Company Initial Date	07/10/2001
Auditor Cert #		Registration Date	06/25/2004
Auditor Cert Date		Expiration Date	06/24/2007
Auditor Renew By		Industry Cert Number	
CB Member	Chris J. Reimer		

Fields in box cannot be updated by FRS report. To update your qualifications contact Gail Sheats. To request a CB Member change contact Garry Puglio

Support Sites

Scopes

(Only required for QMS)

(Support site scopes should only be changed if you are the lead auditor for that site)

Customer Specifics (For Industry Specific Standards Only. Please provide customer name and customer specific document referenced)

Note to Auditors: Please schedule, or indicate tentitive dates, for the next three audits to occur

<u>Audit</u>	Planned Date	Actual Date	Report Date	<u>Audit Team</u>
Surveillance Audit	06/20/2005	06/20/2005	06/23/2005	Lead - Kenneth A. Clayman
Surveillance Audit	06/19/2006	06/19/2006	06/23/2006	Lead - Kenneth A. Clayman, Briana
Re-assessment Audit	06/01/2007	5/21/07	5/25/07	Sprague Lead - Kenneth A. Clayman
				B. Sprague, D. Henderlight, G. Bellen

The reassessment audit conducted May 2007 included all areas of the Lab, which is the combination of the Phase 1, 2 & 3 OHSAS scopes in addition to the EMS Scope - this will bring the EMS and OSHMS surveillance and reassessment schedules into alignment. If necessary adjust the associated Quotes for surveillance visit man-days.

5/19/2007 Page 2 of 5

Industrial Classification

<u>Industrial</u>	<u>Code</u>	<u>Description</u>
SIC	8733	Noncommercial research organizations
IAF - EMS	34	Engineering Services

Supplier Information

Supplier Codes (Do not indicate a supplier without a valid code)

Other

Corp Classification None

General Information

P.O. Number BNL 0000092305

Quality Manual Date Manual Revision

Contract on File 07/19/1999 Language eng

Site Information

Operating Hours

Holidays / Closings Standard

Directions to Facility

Est Size of Facility (Square Feet) 0
Number of Employees - Hourly 0
Number of Employees - Salaried 2,750 2,570
Total Number of Employees at each shift-Shift1 2,750 2,570

Total Number of Employees at each shift-Shift20Total Number of Employees at each shift-Shift30Total Number of Employees at each shift-Shift40

Check when Number of Employees has been verified

5/19/2007 Page 3 of 5

Outstanding CAR's As of 5/19/2007

Facility Name

Brookhaven National Laboratory

FRS: 69525

The following CAR's were opened for this facility on the date indicated, but have not been closed as of the above print date. CARS CANNOT be closed without submitting the proper CAR form and evidence of closure.

OFI's CAN be closed simply by making a notation on this page to the Registration Specialist.

BNL-EMS-SA06/23/2005	Minor	4.4.6	Open
BNL-EMS-SA06/23/2005	Minor	4.4.5	Open
BNL-EMS-SA06/20/2005	Minor	4.3.2	Open

All three were closed during the 2006 surveillance!

5/19/2007 Page 4 of 5

Audit Conducted in Remote Auditor		Auditor Recommendation	Certification Board Approval	
Yes 🗆 N	No 🖾	Signature Date	Signature Date	
Desk Audit	Recommendation to proceed			
Readiness Review	Recommendation NOT to proceed			
	Recommendation for Registration			
Registration	Recommendation for Registration Pending other Corporate Sites			
.*	Recommendation for Registration pending CARs			
	Recommendation for a Verification audit			
Upgrade to: You must make a recommendation under Registration in addition to indicating the upgrade standard.	ISO 14001:2004 ISO/TS 16949:2002 ISO 9001:2000 AS9100:2004 Other	~ 110		
apprade Standard.	Recommendation for Recertification	County of (Jay 5/25/07		
Reassessment	Recommendation for Recertification Pending Other Corporate Sites		•	
	Recommendation for Recertification pending CARs			
	Recommendation for a Verification audit			
Surveillance	No Change to Certificate	n #1/1		
	Certificate Changes Required	Januar 1. lay 5/25/07		
Special ** (Requires additional	Recommendation for Probation	Approval		
authorization)	Recommend			
	Probation Removal	Approval		
•	Recommendation to			
	Registration	Approval		
Client Management Rep	or Authorized Signature		5/25/07 Date	
Checked for Sig	ned Contract on file	· · · · · · · · · · · · · · · · · · ·	FOR OFFICE USE ONLY	
External Databases		/IAOB (TS)	QSU (QS)	
Reason for Certificat	<u></u>	egistration Upgrade Reasses	• •	
		strative Error		
Certificate Review:			Support Sites/Scopes	
	☐ IAF/SIC/NACE ☐	Marks ☐ Expiration Date ☐	Customer Specifics	
	☐ Scope ☐ (Cert # ☐ Initial Date ☐	Supplier Codes Initial Approval	

Facility Record Sheet

NSF International Strategic Registrations, LTD

789 N. Dixboro Road Ann Arbor, MI 48105 Tel: (734) 827-6800



Corporate Nar	me Brookhaven Nati	onal Laboratory		Corporate 69520
Address 1 Address 2 Address 3 Address 4	Building 460 Brookhaven Avenue P.O. Box 5000	е		
City Toll Free	Upton Ext	State New York	Postal 11973-5000	Country US
EMS Rep QMS Rep HACCP Rep			Phone Phone Phone	Ext Ext Ext
Facility Name	Brookhaven Natio	nal Laboratory		FRS 69528
Address 1 Address 2 Address 3 Address 4 City	81 Cornell Ave. Upton	State New York	Postal Code 11973-5000	Country US
Contact Contact E-Mail Contact Phone Contact Fax Backup Contact	Patricia Williams pat5@bnl.gov 631-344-8211 Ext 631-344-7618 Robert Selvey	Toll Free Regional Sale	Ext s Manager Cindy Neve Specialist Karen Laskowski (73-	
Facility Shippii	ng Address		☐ Check here if san	ne as Facility Address
Facility Name Facility Contact Address 1 Address 2 Address 3 Address 4	Brookhaven National Laboratory Patricia Williams 81 Cornell Ave.			
City	Upton	State New York	Postal 11973-5000	Country US
Facility Billing	Address		☐ Check here if sar	ne as Facility Address
Facility Name Facility Contact Address 1 Address 2 Address 3 Address 4	Brookhaven National Laboratory Carol Ogeka ESHQ Directorate Bldg 120			
City	Upton	State New York	Postal 11973	Country US

OHSAS 18001:1999

Program Status* Listed

FRS 69528

*If the status is Audit Only then the company does not have its own scope or certificate but is referenced on another certificate.

Scope of Registration

Health, safety risks associated with Brookhaven National Laboratory operations in Upton, New York.

Exclusions	Product Design		
Accreditation Marks	None	Certificate Number	69528-OH2
Audit Frequency	12 Month(s)	Certificate Issue Date	12/19/2006
Lead Auditor	Kenneth A. Clayman	Company Initial Date	12/02/2005
Auditor Cert #		Registration Date	12/02/2005
Auditor Cert Date	04/30/2004	Expiration Date	12/01/2008
Auditor Renew By		Industry Cert Number	
CB Member	Chris J. Reimer		

Fields in box cannot be updated by FRS report. To update your qualifications contact Gail Sheats. To request a CB Member change contact Garry Puglio

Support Sites

Scopes

(Only required for QMS)

(Support site scopes should only be changed if you are the lead auditor for that site)

Customer Specifics (For Industry Specific Standards Only. Please provide customer name and customer specific document referenced)

Note to Auditors: Please schedule, or indicate tentitive dates, for the next three audits to occur

<u>Audit</u>	Planned Date	Actual Date	Report Date	Audit Team
Desk Audit	07/15/2005	07/28/2005	07/28/2005	Lead - Kenneth A. Clayman
Readiness Review	09/19/2005	09/19/2005	09/20/2005	Lead - Kenneth A. Clayman
Registration Audit	11/14/2005	11/14/2005	11/14/2005	Lead - Kenneth A. Clayman, Briana
				Sprague
Surveillance Audit	06/19/2006	06/19/2006	06/23/2006	Lead - Kenneth A. Clayman, Briana
				Sprague
Desk Audit	06/30/2006	09/05/2006	09/05/2006	Lead - Kenneth A. Clayman
Readiness Review	09/30/2006	10/12/2006	10/13/2006	Lead - Briana Sprague
Registration Audit	12/03/2006	12/04/2006	12/07/2006	Lead - Kenneth A. Clayman, Briana
Reassessment				Sprague
Surveillance Audit	05/21/2007	5/21/07	5/25/07	Lead - Kenneth A. Clayman, B. Sprague,
Surveillance Audit	12/04/2007			Lead - Kenneth A. Clayman D. Henderlight,
	6/16/08			G. Bellen

The reassessment audit conducted May 2007 included all areas of the Lab, which is the combination of the Phase 1, 2 & 3 OHSAS scopes in addition to the EMS Scope - this will bring the EMS and OSHMS surveillance and reassessment schedules into alignment. If necessary adjust the associated Quotes for surveillance visit man-days.

5/19/2007 Page 2 of 5

Industrial Classification

<u>Industrial</u>	<u>Code</u>	<u>Description</u>
SIC	87	Engineering & Management Services
IAF - EMS	34	Engineering Services

Supplier Information

Supplier Codes (Do not indicate a supplier without a valid code)

 Ford
 N/A

 GM
 N/A

 Daimler Chrysler
 N/A

Other

Corp Classification None

General Information

P.O. Number PO 106339

Quality Manual Date Manual Revision

Contract on File 07/19/1999 Language eng

Site Information

Operating Hours (Not provided) Holidays / Closings Standard

Directions to Facility

Est Size of Facility (Square Feet) Number of Employees - Hourly Number of Employees - Salaried

Total Number of Employees at each shift-Shift1
Total Number of Employees at each shift-Shift2
Total Number of Employees at each shift-Shift3
Total Number of Employees at each shift-Shift4

860 0 2,570

2,570

860

5/19/2007 Page 3 of 5

Outstanding CAR's As of 5/19/2007

Facility Name Brookhaven National Laboratory

FRS: 69528

The following CAR's were opened for this facility on the date indicated, but have not been closed as of the above print date.

CARS CANNOT be closed without submitting the proper CAR form and evidence of closure.

OFI's CAN be closed simply by making a notation on this page to the Registration Specialist.

BOSH-5	12/07/2006	Minor	the legal and other	Open All Closed - see Reassessment Report
BOSH-4	12/07/2006	Minor	OHSAS 18001:1999, Clause 4.3.4 STATEMENT OF REQUIREMENT: SBSM Interim Procedures 2004-18001-001 & Description of the control o	Open
BOSH-5	12/07/2006	Minor	OHSAS 18001:1999, Clause 4.4.5 STATEMENT OF REQUIREMENT: The Organization shall establish and maintain procedures for controlling all documents required STATEMENT OF NONCONFORMITY: Several local documents in various departments were in use but not included under document control requirements. O BJECTIVE EVIDENCE:CMS New Employee orientation and training checklist (Uncontrolled copy in use, controlled by IH50350)Education department's instructions for the conduct of cryogenic or	Open

5/19/2007 Page 4 of 5

Audit Conducted in Remote Auditor		Auditor Recommendation	Certification Board Approval
Yes 🗆 N	No 🗵	Signature Date	Signature Date
Desk Audit	Recommendation to proceed		
Readiness Review	Recommendation NOT to proceed		
	Recommendation for Registration		
Registration	Recommendation for Registration Pending other Corporate Sites		
	Recommendation for Registration pending CARs		
	Recommendation for a Verification audit		
Upgrade to: You must make a recommendation under Registration in addition to indicating the upgrade standard.	ISO 14001:2004 ISO/TS 16949:2002 ISO 9001:2000 AS9100:2004 Other		•
ar grade standard.	Recommendation for Recertification	Canuth A. Cayn 5/25/07	
Reassessment	Recommendation for Recertification Pending Other Corporate Sites		•
	Recommendation for Recertification pending CARs		
	Recommendation for a Verification audit		
Surveillance	No Change to Certificate Certificate Changes	p 41/1	
	Required	Connelly A. Clay 5/25/07	
Special ** (Requires additional	Recommendation for Probation	Approval	
authorization)	Recommend Probation Removal	Approval	
	Recommendation to	Approval	
Cat:	Registration		5/25/07
Crient Management Rep	or Authorized Signature		Date
☐ Checked for Sig	ned Contract on file		FOR OFFICE USE ONLY
External Databases	Updated: 🔲 IATF	//IAOB (TS)	QSU (QS)
Reason for Certificat		egistration	
Certificate Review:			Support Sites/Scopes
Commodic Neview.		Marks Expiration Date	Customer Specifics
		·	Supplier Codes Initial Approval





Page ____ of <u>34</u>

AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #6952	25 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	Ken Clayman	Date: 5/21-25/2007
Personnel Interviewed	M-BEBON - DEP DER	- OPERATIONS

Element #	
4.2,4.1	RHIC IS RUNNING THIS YEAR
4.4.1	EXECUTIVE LEADERS HIP TRAINING IN PROCESS
4.3.3	OPERATIONS BUSINESS PLANNING CYCLE IS FA
4.3.4(0)	PROCESS -> CREATES HIGHLEVEL "TO DO" LIST
4.4.4	- INCLUSES LAS LEVEL O+TS (OSH; E)
4.5.1	- INCLUDES LAS LEVEL MONT REV'US
4.6	- WORKING ON JONE PROCESS IMPROVEMENT
	INITIATIVES, EX
	* RZAZS OF ASSESSMENT MANAGER, PARTICULARLY
	WHEN THE ASSESSMENT IS CROSS-FUNCTIONAL
	- FY 2009 OPERATIONS BUSINESS PLAN (12/15/06)
-	- ISM/ SAFETY IMPROVEMENT PROJECT PLAN (2006)
	- DEDICATED PM
	· SEVER EHES INSTRATEVES - INCORPORATES
	THE E/OSH OBJECTIVES & TARGETS
	EXE: EN REDUCTEON OF LEGACY WASTE STEMS
	OSH - REDUCTION OF TRC/DART RATES
	- REV'D: PERFORMANCE ASSESSMENT RECORDS/RESULTS
	(3/27/07) => STOR-LIGHT (R-Y-G) CHARTS
	"WORKING THE ISSUE OF DECYCLIANG OF BLDG PARTS
	AT END OF LIFE DEMOLITION
	- ANNUM LABORATURY PLAN (ALP: 11/15/06)





Page $\frac{2}{\sqrt{34}}$ of $\frac{34}{\sqrt{34}}$

AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS	Reassessment		
Auditor Name:	Ken Clayman	Date: 5/21-25/2007	*	2.
Personnel Interviewed:	M. BEBON			

In left-hand column, note the element that was assessed and any secondary element that was assessed.

Element #	
	-REVIEW OF THE PLANS DEMONSTRATES GOOD COORDE-
4.3.3	NATION & FLOW-DOWN OF LAB OBJECTIVES GOALS
4340	TO "LOWER" LEVELS OF LAB STRUCTURE
4.4.1	- OPERATIONS ORGANIZATION INTEGRATED
4.4.4	ASSESSMENTREPORT (FYOG) - REVIEW OF
4.6	(06 OBJECTIVES, SUCCESSES, MISSES, etc.
4.5/. 1	- ADDING ELEMENT OF RISKASSESSMENT TO THE
4.5.2(6)	
	= O CAPTURES DD'S REVIEW OF ALL TYPES OF
4.5.3(E)	ASSESSMENTS DONE IN OPERATIONS AREAS
	ALONG W/ ORPS REVIEW -> ASK FOR IMPUT
	FROM SELECT STAFF AS WELL
	- MOST RECENT MANAGEMENT REVIEWS FOR OSH ;
	EMS (COMPLETED SEPARATELY), MED-DEC. '06
	E ISSUES - SPILLS, GW CLEANUP,
	· FYO 6 EMS HONT PEVEN RELORD OF DECISION
	3/7/07 - MTG HELD 12/18/06
	" MENUTES & RODS INSTITUTIONAL LEVEL
	OSH MR (12/19/06)
	- BEGAN A HUMAN PERFORMANCE IMPROVEMENT
	BYETIATIVE
·	· RECOGNITION OF LIFE- OR HABITUAL MYPE SAFETY ISSU
	AS UPPOSED TO ORG OR OPERATIONAL ISSUES

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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525 & 69528) - E	MS/OSHMS Reassessment
Auditor Name:	Ken Clayman	Date: 5/21-25/2007
Personnel Interviewed:	P. WILLIAMS - MER SHSD	, G. Goode - Mar EWMSD

Element #	
4.3.3	FYOT ENVERONMENTAL OBJECTIVES & TARGETS (14/3/06
_	FYOT OSH OBJECTENES & TARGETS (1/9/06)
4.4.4	- THESE ARE CONSIDERED THE INSTITUTIONAL
4.4.5	LEVEL O/T'S - DERECTORATES, etc. ARE
4.5.1	EXPECTED TO SELECT THE SPECIFIC O/T'S
4.3.2	APPLICABLE/BELEVANT TO THEIR ACTIVITIES
4.5.2(8)	OPERATIONS
	- SOME OF THE TARGET DEADLENES ON THE OSH
	SIDE WERE POSTPONED TO LATER DATES (SUCH
	AS EDY '07) BECAUSE OF THE WORK RED'D
	FOR DOE 10 CFR 851 COMPLIANCE - CURRENT
	WATTING FOR DOE MOPROVAL ON THEIR
	PROPOSED PLAN.
	- EMS- SPDES ISSUES - NITRATE EXCESSANCES
	=> Focus ON PLANT ENGRE GROUP
	=> WATTING ON NYSDEC APPROVAL OF SULDGE
	MANAGEMENT DISPOSAL RAN
	-E-ODJS - EUS IMPROVEMENT, COMPLETICE,
	P2, COMMUNICATIONS, GW PROTECTION, ENHANCE
	NAT. RESOURCE / CILT. RESOURCE MANAGEMENT GAL,
	ENV-CLEAN-UP





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AUDIT NOTES

Organization Name:	Brookhaven Natio	onal Lab (FRS #69	525 <u>& 69528) – EM</u>	S/OSHMS Reassessment	
Auditor Name:	Ken Clayman	•		Date: 5/21-25/2007	
Personnel Interviewed:	MERS-	EWMSD,	SHSD		

Element# 4.5./ REV'D: GTRLY REPORT - 2 DE GIR-FYOT (4/12/67) 4.5.30) OSH 4.5.4(E) OART /TRCR -> 50.25/5 0.65 & CHEENTLY OVER 4.3.3 ENCOURAGING BEHAVIORAL MODIFICATIONS 4.3.4(O) - OBH O/TS INCLUDE! IMPROVE OSH MS, CONDUCT OSHA EXTENT OF CONDITIONS REVIEWS, IMPROVE ACCIDENT / INJURY RATE REFFORMANCE, IMPROVE HES IMPLEMENTATION OF MAT'L HANDLING
4.5.3(0) OSH 4.5.4(E) O DART /TRCE -> SO.25/SO.65 -> CHRENTLY OVER 4.3.3 ENCOURAGING BEHAVIORAL MODIFICATIONS 4.3.4(0) - OSH O/TS INCLUDE! IMPROVE OSH MS, CONDUCT OSHA EXTENT OF CONDITIONS REVIEWS, IMPROVE ACCIDENT / INJURY RATE BEFFORMANCE, IMPROVE HES IMPLEMENTATION OF MAT'L HANDLING
4.5.3(0) OSH 4.5.4(E) O DART /TRCE -> < Ø.25 / & Ø.65 > CHRENTLY OVER 4.3.3 ENCOURAGING BEHAVIDRAL MODIFICATIONS 4.3.4(0) - OBH O/TS INCLUDE: IMPROVE OSH MS, CONDUCT OSHA EXTENT OF CONDITIONS REVIEWS, IMPROVE ACCIDENT / INJURY RATE BEFFORMANCE, IMPROVE HES IMPLEMENTATION OF MAT'L HANDLING
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ACCIDENT / INJURY RATE GERFORMANCE, IMPROVE MED IMPLEMENTATION OF MAT'L HANDLING
ACCIDENT / INJURY RATE GERFORMANCE, IMPROVE MED IMPLEMENTATION OF MAT'L HANDLING
HE IMPLEMENTATION OF MAT'L HANDLING
TRAG PEM, COMPLIANCE, COMMUNICATIONS,
STUDENT SAFETY, TRAVEL
- PART OF ATTEMPT TO IMPROVE DART/TROR-
INSTITUTING MORE FORMALIZEDS WORK EVALUE
TION ACTIVITY - DIFFERENT SOLUTIONS
UNDER DISCUSSION (ATTACH JEAS TO WORK
ORDERS FOR Ex.)
- ~ 20 52 PROPOSALS SUBMITTED - WASTING
ON FUNDING
-855 & H MONTHLY DUMMARY - INCLUSES
- 855 & H MONTHLY DIMMARY - INCLUDES WRDATES ON RECORDABLE/DART CASES, [PAPE]
SAFETY





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AUDIT NOTES

Auditor Name: Ken Clayman Personnel Interviewed: In left-hand column, note the element that was assessed and any secondary element that was assessed. Element # 4.6 Ren's: BNL Institutednas — Lenel O5H Mana 4.53(0) Review (12/19/06: Presentation matils) & B 4.5.4(8) O5H MR Discussion Agenda 12/19/06 — E55 & H Policy — Revised Properto M 6 Revised As of 1/6/66 — Less wordy, the To MAKE IT MORE CUMBESTANDABLE FOR	
Element # 4.6 REN'D: BNL INSTITUTEDNAZ -LEVEL OSH MANN 4.53(0) REVIEW (12/19/06: PRESENTATION MATILS) & B 4.5.4(6) OSH MR DISCUSSION AGENDA 12/19/06 - ESS & H POLICY - REVISED PRIOR TO M 6 REVISED AS OF 9/6/66 - LESS WORDY, THE	<u> </u>
Element# 4.6 REN'D: BNL INSTITUTEDNAZ -LEVEL OSH MANGE 4.53(0) REVIEW (12/19/06: PRESENTATION MATILS) & B 4.5.4(E) OSH MR DISCUSSION AGENDA 12/19/06 - ESS & H POLICY - REVISED PRIOR TO M "REVISED AS OF 9/6/66 - LESS WORDY, THE	
4.6 REN'S: BNL INSTITUTEDNAZ -LEVEL OSH MANG 4.5.3(0) REVIEW (12/19/06; PRESENTATION MATILS) & B 4.5.4(E) OSH MR DISCUSSION AGENDA 12/19/06 - ESS & H POLELY - REVISED PREDE TO M "REVISED AS OF 9/6/66 - LESS WORDY, THE	
4.5.3(0) REVIEW (12/19/06: PRESENTATION MATILS) & B 4.5.4(E) OSH MR DISCUSSION AGENDA 12/19/06 - ESS & H POLICY - REVISED PRIOR TO M * REVISED AS OF 9/6/66 - LESS WORDY, THE	
4.5.4(E) OSHMR DISCUSSION AGENDA 12/19/06 - ESS & H POLICY - REVISED PRIOR TO M * REVISED AS OF 9/6/66 - LESS WORDY, THE	LEMEN:
- ESS : H POLICY - REVISED PRIOR TO M · REVISED AS OF 9/6/66 - LESS WORDY, THE	NY
" REVISED AS OF 9/6/66 - LESS WORDY, THE	
	R
TO MAKE IT MORE UNDERSTANDABLE FOR	LING
	_
EMPLOYEES. DONE BY COMMITTEE W/ I	WALVE-
THENT BY LINE EMPLOYEES	
	-
4.14.2 J. ARENSON - LAS DIRECTOR	
4.3.3 - DIRECTOR FOR N/YR	
4.34(0) - FARLY PARTICIPATED ON DIRECTORATE LEVEL	
4.4.1 - NEED TO COMMUNICATE HIS EXPECTATIONS	
4.4.3 ° Du Hans Mr65	
4.5.1 & MONTCOUNCEL & POLICY COUNCEL MIGS	
· MONDAY MEMO - EVERY OTHER WEEK	
- INFORMAL VERIFICATION OF EFFECTIVENESS	
- PROMOTERS THE HUMAN PERFORMANCE INITIATI	EVE
- DERECTOR'S SAFETY COMMETTEE - CROSS-FU	NCTION
(SCEENCE, TECHS, USERS COMUS, UNEON, ADM	EN,
(SCHENCE, TECHS, USERS COMS, UNEON, ADM: CONSTRUCTION, 4 OTHERS) - APPROX BE-	MONT/H
MINUTES GENERATED	





Page <u>6</u> of <u>34</u>

AUDIT NOTES

Organization N	Name: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name	Ken Clayman Date: <u>5/21-25/2007</u>
Personnel Inter	viewed:
In left-hand co	lumn, note the element that was assessed and any secondary element that was assessed.
Element #	LAO DIRECTOR
4.5.1	- WALK-AROUNDS - RECORDED - FOCUS ON SAFETY
4.4.3	(HE ITAS ONLY DONE A FEW SO FAR)
4.4.1	- COMM. ADVISORY COMMITTEE - STRANG FOCUS ON
4.6	ENV., MONTITLY, ATTENDS REGULARLY
41	- RESOURCES MANAGEMENT/ PEANNING
	"ANNUAL STRATEGIC PLANNING CYCLE - ANNUAL
	LAB BUS. PLAN -> SETS PRIORITIES
	SPEND MONEY TO SUPPORT THE PEAN
	- MRS - LOOKS FOR THE PROCESS TO DRIVE SENSIBLE
	TARGETS FOR THE WICOMENS YEAR
	- GEN'L CONCERN - INTEGRATION OF EMS/OSHA
	w/ ISM
	Comm. GLAN DEVELOPED TO TRY TO OVERCOME
	THE MISPERCEPTION THAT THEY'RE SEPARATE



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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525 & 6952	28) – EMS/OSHMS Reassessment	
Auditor Name:	Ken Clayman	Date: 5/21-25/2007	
Personnel Interviewed:	EM9 PGM MGR		

Element #	Your.
4.5.4(0)	ZEVID: FINAL REPORT! ISO14001 EMS : OHSAS 18001:
4.5.5(8)	1999 OSH MS INTERNAL AUDET (3/13/07) - AURET
4.5.3(0)	CONDUCTED EN FEB. 2007
4.5.4(E)	-COVERED PARTIAL SYSTEM - APPROX /3 rd OF CLAUSES, AS
4.6	WELL AS ANY SPECIETCS WHAT THE DEPARTMENTS/
4.4.4	DIVISIONS MAY PEQUEST.
4.4.5	- COVERING ALL CLAUSES/REQ'TS OVER A 3-YR
	PERIOS
	REVIO: MEMO- EMS REPS MITE TO DOC. EMS IA
	Score ROR FYOT IA (3/5/67 - MTG HELD
· 	1/4/07) -> DEMONSTRATES REVIEW OF PREV. AWEYS
	TO DETERMINE ITEMS TO ADDRESS, AS WELL AS
	CONSTREATION OF IMPORTANCE => GOOD DOCK-
X	MENTATION!
4.2	- CK'D EXTERNAL ACCESS TO ESSIT POLICY ON BWL
4.4.3	WEB SITE
	- SUBJ. AREA: ENV_ASSESSMENTS & ESH MANAGEMENT
	REYTEW (5/16/07)
4.4.2	- ZEVID: EMS INT. AMOSTORS AS OF 5/17/67 (LESTONIEN
	- SA: NC'S, IDENTIFYEDG & REPORTING (12/15/03)
	- REN'D: ATS RECORDS FOR FINALNES (INT & EXT)
	FROM MOST RECENT ANDITS - #3639 FOR FEB. IA





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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
rigatiization ranic.	Diockia (Ci Tvatolini Lao (110 "07325 & 07320) Envis Cornvis recissessiment

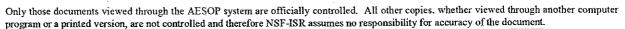
Auditor Name:

Ken Clayman

Date: 5/21-25/2007

Personnel Interviewed: EMS VGM

4.5.20 FY 2007 SELF ASSESSMENT FLAN -D ALL 4.5.36 ITEMS TRACKED IN ATS 4.5.46 4.5.46 4.5.30 ATS #3823 - BROOKHAWEN DOE OFFICE ANDIT 4.6 (1445 - ELECTRIC CAL CORD ISSUE) - STARTED IN MARCH, DUE BY 577/07 -D NOT CLOSED, CONFLETED OR ANNOTATED ATS #3696 - MANAGEMENT REVION ACTION ITEMS EWMSD PHANAGER - RESPONSIBLE FOR ANALYSIS OF NC/CAPA DATA TO I.D. TRENDS & INITIATE ACTIONS AS NECESSARY (PENDS TO (EX DOC. (TRE LAB-WIDE ISSUE - C-7 NOTIFICATION) - INITIATE ACTIONS IN DEC. '06 * ROYEW (MONT) - STRONGLY IMPROVED! (OVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES) - CLEME DEMO OF ALTTON ITEMS ALTION ITEMS ALTION ITEMS ALTION ITEMS ALTION ITEMS. BUT INSTEAD THIS HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANTE REVW CHITERIA. "REV"D". ROD; (LEV. 1) OSH MGMT REV"W		
4.5.3E ITEMS TRACKED IN ATS 4.5.3E ITEMS TRACKED IN ATS 4.5.30 ATS #3823 - BROOKHAWEN DOE OFFICE AUDIT 4.6 (14+5-SECTRICAL CORD ISSUE) STARTED IN MARCH, DUE BY 577/07 - NOT CLOSED, CONPLETED OR ANNOTATED ATS #3696 - MANAGEMENT REVION ACTION ITEMS EWMSP PHANAGER - RESPONSIBLE FOR ANALYSIS OF NC/CAPA DATA TO I.D. TRENDS # INITIATE ACTIONS AS NECESSARY (PENDS PE (EX DOC. (TRE LAB-WIDE ISSUE - C-7 NOT-FICATION) - INITIAT ACTIONS IN DEC. '06 RELEVANT DATA (BASED ON ANALYSES) - CLEME DEMO OF ALTION ITEMS. - ACTION ITEMS. - ACTION ITEMS. - ACTION ITEMS. BUT INSTEAD THIS HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CRITERIA. "REV'D" ROD; (LEV.) OSH MGMT REV'W	Element #	1
4.5.30 ATS #3823 - BROCKHWEN DOE OFFICE AUDIT 4.6 (H+5-SLECTRICAL CORD ISSUE) STARTED IN MARCH, DUE BY 5/7/07 - NOT CLOSED, CONFLETED OR ANINOTATED ATS #3696 - MANAGEMENT REVIEW ACTION ITEMS EWMSD PHANAGER - RESPONSIBLE FOR ANAMYSIS OF NC/CAPA DATA TO I.D. TRENDS * INITITATE ACTIONS AS NECESSARY (PENDS RE (EX DOC. (TRE LAB-WIDE ISSUE - C-7 NOTIFICATION) - INITIAT ACTIONS IN DEC. 'OG * ROYEW (MGMT) - STRONGLY IMPROVED! (OVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES) - CLEME DENO OF ALTTON ITEMS. - ALTION ITEMS. - ALTION ITEMS. BUT INSTEAD THIS HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CHITERIA. "REVID" RODS (LEVI) OSH MGMT REVIEW	4.5.20	FY 2007 SELF ASSESSMENT FLAN - ALL
4.5.30 ATS #3823 - BROCKHANEN DOE OFFICE AUDIT 4.6 (14+5-SLECTRICAL CORD ISSUE) - STARTED IN MARCH, DUE BY 577/07 - NOT CLOSED, CONFLETED OR ANNOTATED ATS #3696 - MANAGEMENT REVIEW ACTION ITEMS EWMSD PHANAGER - RESPONSIBLE FOR ANALYSIS OF NC/CAPA DATA TO I.D. TRENDS * INITIATE ACTIONS AS NECESSARY (PENDS & EXIT TATE ACTIONS IN DEC. 'OG * ROUSEW (MONT) - STRONGLY IMPROVED! (OVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES) - CLEME DEMO OF ALTTON ITEMS. - ACTION ITEMS. - ACTION ITEMS. - ACTION ITEMS. BUT INSTEAD THAT HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CHITERIA. "REV'D" ROD, (LEV.) OSH MGMT REV'W	4.5.38	ITEMS TRACKED IN ATS
4.6 (H+5-ELECTRICAL CORD ISSUE)— STARTED IN MARCH, DUE BY 5/7/07 - NOT CLOSED, CONPLETED OR ANNOTATED ATS #3696 - MANNEEMENT REVION ACTION ITEMS EWMSD PHANAGER - RESPONSIBLE FOR ANALYSIS OF NC/CAPA DATA TO I.D. TRENDS: INITIATE ACTIONS AS NECESSARY (PENDS: ZE (EX DOC. (TRE LAD-WIDE ISSUE - C-7 NOTEFICATION) - INITIATE ACTIONS IN DEC. 'OG RELEVANT DATA (BASED ON ANALYSES) - CLEME DENO OF ALTON ITEMS. - ACTION ITEMS. - ACTION ITEMS. BUT INSTEAD THAT HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVU CRITERIA. "REV'D": ROD; (LEV. !) OSH MGMT REV'W	4.5.48	4
DUE BY 5/7/07 -= NOT CLOSED, CONFLETED OR ANNOTHTED ATS #3696 - MANAGEMENT REVIW ACTION ITEMS EWMSD PHANAGER - Q25PONSTIBLE FOR ANALYSIS OF NC/CAPA DATA TO I.D. TRENDS: INITIATE ACTIONS AS NECESSARY (PENDS ? (EX DOC. (TRE LAB-WIDE ISSUE - C-7 NOTEFICATION) - INITIAT ACTIONS IN DEC. 'OG * PENTEW (MONT) - STRONGLY IMPROVED! (OVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASSED ON ANALYSES) -> CLEME DENO OF ALTTON ITEMS. - ALTION ITEMS. - ALTION ITEMS. BUT INSTEAD THAT HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CHITERIA "LEV'D". ROD; (LEV.) OSH MGMT REV'W	4.5.30	ATS #3823 - BROKHWEN DOE OFFICE AUDIT
ANNOTATED ATS#3696 - MANAGEMENT REVION ACTION ITEMS EWMSD PMANAGER - RESPONSIBLE FOR ANALYSIS OF NC/CAPA DATA TO I.D. TRENDS : INITIATE ACTIONS AS NECESSARY (REVIS: ZE (EX DOC. (TRE LAB-WIDE ISSUE - C-7 NOTEFICATION) - INITIATE ACTIONS IN DEC. 'OG * REVIEW (MONT) - STRONGLY IMPROVED! (OVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES) - CLEME DEMO OF ALTION ITEMS. - ACTION ITEMS. - ACTION ITEMS. BUT INSTEAD THEM HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CHITERIA. "REVID" ROD; (LEV.) OSH MONT REVIW	4.6	(H+5- ELECTRICAL CORD ISSUE) - STARTED IN MARCH,
ATS#3696 - MANAGEMENT REVIN ACTION ITEMS EWMSP MANAGER - RESPONSIBLE FOR ANALYSIS OF NC/CAPA DATA TO I.D. TRENDS : ENTITATE ACTIONS AS NECESSARY (PENDS) EXETTATE LAB-WIDE ISSUE - C-7 NOTEFICATION) - INITIATE ACTIONS IN DEC. 'OG * ROTEN (MONT) - STRONGLY IMPROVED! (OVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES) - CLEME DEMO OF ALTEON ITEMS. - ALTEON ITEMS. - ALTEON ITEMS. BUT INSTEAD THEM HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVU CRITERIA. "REVID" ROD; (LEV.) OSH MGM T REV'W		DUE BY 577/07 - NOT CLOSED, COMPLETED OR
EWMSP MANAGER - RESPONSIBLE FOR ANALYSIS OF NC/CAPA DATA TO I.D. TRENDS: INFITATE ACTIONS AS NECESSARY (PENDS ZE (EX DOC. (TRE LAB-WIDE ISSUE - C-7 NOTEFICATION) - INFITATE ACTIONS IN DEC. 'OG ** PROFEW (MONT) - STRONGLY IMPROVED! (OVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES) -> CLEAR DEMO OF ALTION ITEMS. - ACTION ITEMS. - ACTION ITEMS. BUT INSTEAD THIS HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CHITERIA. "LEN'D". ROD; (LEV.) OSH MGMT REV'W	· · .	ANNOTATES
NC/CAPA DATA TO I.D. TRENDS : INITIATE ACTIONS AS NECESSARY (PENDS ZE (EX DOC. GREE LAB-WIDE ISSUE - C-7 NOTIFICATION) - INITIATE ACTIONS IN DEC. 'OG * PENTSW (MGMT) - STRONGLY IMPROVED! (OVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES) - CLEME DEMO OF ALTTON ITEMS. - ACTION ITEMS. - ACTION ITEMS. BUT INSTEAD THAT HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CHITERIA. "REN'D": ROD: (REV.) OSH MGMT REN'W		ATS#3696 - MANAGEMENT REVION ACTION ITEMS
ACTIONS AS NECESSARY (PENDS DE (EX DOC. CTREE LAB-WIDE ISSUE - C-7 NOTIFICATION) - INITIATE ACTIONS IN DEC. 'OG ** ROVIEW (MGMT) - STRONGLY IMPROVED! (OVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES!) -> CLEME DEMO OF ACTION ITEMS. - ACTION ITEMS. - ACTION ITEMS. BUT INSTEAD THEY HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CRITTERIA. "REV'D": ROD; (REV-1) OSH MGM T REV'W		EWMSP TYANAGER - RESPONSIBLE FOR ANAUSIS OF
LAB-WIDE ISSUE - C-7 NOTEFICATION) - INITIATE ACTIONS IN DEC. 'OG * REVIEW (MGMT) - STRONGLY IMPROVED! COVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES) -> CLEME DEMO OF ACTION ITEMS. - ACTION ITEMS. BUT INSTEAD THAT HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CRITERIA "REV'D": ROD; (REV-1) OSH MGMT REV'W	·	NC/CAPA DATA TO I.D. TRENDS : ENETTATE
ACTIONS IN TEC. '06 * POVISW (MGMT) - STRONGLY IMPROVED! COVERS GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES!) -> CLEME DEMO OF ACTION ITEMS. - ACTION ITEMS. BUT INSTEAD THEY HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CRITTERIA. "REV'D": ROD; (REV-1) OSH MGMT REV'W	-	ACTIONS AS NECESSARY (PENS) ZE (Ex DOC. GRE
RELEVANT DATA (BASED ON ANALYSES) - CLEME DEMO OF ALTTON ITEMS. - ACTION ITEMS. BUT INSTEAD THAT HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CHITERIA. "REN'D": ROD: (REV-1) OSH MGMT REV'W		LAB-WIDE ISSUE - C-7 NOTEFICATION) - INSTITATE
GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF RELEVANT DATA (BASED ON ANALYSES') - CLEME DEMO OF ALTEON ITEMS. - ACTION ITEMS. BUT INSTEAD THAT HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CHITERIA. "REV'D: ROD: (LEV-1) OSH MGMT REV'W		
RELEVANT DATA (BASED ON ANALYSES) -> CLEME DEMO OF ACTION ITEMS. - ACTION ITEMS TO BE TRACKED IN ATD, BUT INSTEAD THAT HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVW CHITERIA "REV'D': ROD; (REV-1) OSH MGMT REV'W	*	ROVIEW (MONT) - STRONGLY IMPROVED! COVERS
DEMO OF ACTION ITEMS. - ACTION ITEMS TO BE TRACKED IN ATD, BUT INSTEAD THAT HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVU CHITERIA "REV'D': ROD: (REV-1) OSH MGMT REV'W	-	GOOD LEVEL OF INPUTS, GOOD PRESENTATION OF
- ACTION ITEMS TO BE TRACKED IN ATD, BUT INSTEAD THAT HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVU CHITERIA "REV'D': ROD; (REV-1) OSH MGMT REV'W		RELEVANT DATA (BASED ON ANALYSES) -> CLEME
BUT INSTEAD THIS HAVE BEEN ADDED TO SOME PEOPLE'S PERFORMANCE REVU CHITTERIA "REV'D': ROD; (REV-1) OSH MGMT REV'W		DEMO OF ACTION ITEMS.
SOME REDRIES PERFORMANCE REVU CRITTERIA. "REV'D: ROD, (REV-1) OSH MGMT REV'W		- ACTIONS ITEMS TO BE TRACKED IN ATS,
SOME REDRIES PERFORMANCE REVU CRITTERIA. "REV'D: ROD, (REV-1) OSH MGMT REV'W		BUT INSTEAD THEST HAVE BEEN ADDED TO
		SOME PEOPLE'S PERFORMANCE REVU CHITTERIA.
		"REV'D: RODO (REV-1) OSH MGMT REV'W
DTATUS XEPORT (3/18/07)		STATUS REPORT (5/18/07)





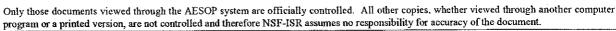


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		AUDIT NOTES	
Organization 1	Name:]	Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment	
Auditor Name: Ken Clayman Date: 5/21-25/2007		007	
Personnel Inte 2. AR- In left-hand co	rviewed: 2 04 – 29 olumn, note	E.LESSARD - ESSHQ Assoc CLASR, D.PASSARELLO -QAM SSHQ Pov. Herb, M. VANESSENDELFT - ECR e the element that was assessed and any secondary element that was assessed.	GR., K.KRASNER- SCH ESSILL COOK
Element #	C-x	4D/5CM	
4.1,4.2	OPM	11.10 (-AD ESH BOLECY (R.4, 4/5/66) - I	~ cu des
4.4.1	Ge	N'L DEX. OF OSHMS IN C-AD, INCL	ades Gen's
4.4.6	RR	ZAs	
	l .		

OPM 1.10.4 (R.4, 6/13/04) OSS MS PROGRAM DESC. FOR 2.28 C-A PROCEDURE FOR WORK PLANNERS AND GIVEDL FOR OPERATIONS (5)18/05, R.8) DOCUMENTATION HAVE BEEN MOVED WORK PERMET FORM-USED ON WORK PLANNERS -> LIST OF WORK CONTROL GORDIENATORS -S PECALLY A LEAD TECH., GROW LEADER, OR TRAS / TRAS FOR TWO DEVISIONS -> REVIEWED RELIGITER (REV. 0,4/24/07) - AREA-WO PART OF COUIDER - CRYOGENIC RIENG -MODERATE CONDETTIONS (50 SCORES CA.) S ADDED CUTIRESK HALUE TAN YZ.

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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525	& 69528) – EMS/OSHMS Reassessment	
Auditor Name:	Ken Clayman	Date: 5/21-25/20	007
Personnel Interviewed:			-

Element #	C-AD/SCM
4.4.6	- GEN'L HOUSKEEPENG ISSUES (REV. 04/28/06)-MODER
4.5.1	TO LOW RISK PER EVALUATION
4.4.4	- ELECTRICAL WORK- HOT (REV. D, 4/6/07) - PLAN
4.4.5	RGM SET UP TO AVEOD INJURIES DUE TO WORK
24.3.1	AROUD HI-ENERGY ENVIRONMENTS. INCLUDES
4.3.2	PRE, TRAINEG REQ'TS
4.5.2(8)	
	OF C-A GHERMUNE IRRADIATER (2/27/07,
	(2,0)
	- VACUUM System Work (5/12/06, Rev. D)
	- WASTE F/ANDLING (LEV. \$, 8/10/06)
	- MATICHNOL'G, MACNETS (REV. Ø, 5/19/06) - POTTOM
	¿ WENDENG COELS
	"SCM- NO EXPERTMENTATION ACTIVITIES
	- ENV. ASPECTS MATRIX - COVERS BOTH ROUGEDAY
	(11/22/2006) - ANNUA REVIEW PER REDIS
	- SIGNEF. ASPECTS LIST (3/16/07) - JUST ABOUT
	ALL ASPECTS HERE STENIF IN C-AD, MANY
<u> </u>	ALSO GOUND IN SCM
	- OP GRES: OCF - RHIC COURS WATER SYSTEMS
	(2/12/07) 60PM 14.9.1
	"WKY MONETORENG OF CHEM AND ITINES
	· MO'LY EFFCUENT MONITORING/REPORTING





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AUDIT NOTES

Organization N Auditor Name:		Date: 5/21-25/2007
ersonnel Inter	-	Date. 5/21-25/2007
n left-hand col	lumn, note the element that was assessed and any s	econdary element that was assessed.
Element #	C-AD/SCM	
4.5.1	· INSPECTIONS OF CITER	L STORAGE FEED SYSTEMS
4.4.6	· CHEN MOUT SYSTEM	
4.3/	° SEVERAL MORE OPM	S PEFENENG CONTROLS FOR
4.4.4	SPECIFIC ISSUES	
4.4.5	O MAINTENANCE PLAN	
4.5.2(0)	OPM 14.5.1 OCF FOR MA	GNET (LEANING DPS (REV. 3 3/12/67)
4.5.3(E)	ORR. ACTIONS TRA	HEKED THRU FAMILY ATS
		SUE WOULD BE TRACKED VIA
	INSTITUTIONAL /	ATS
	- OCF NOVES TR	ATMING NEEDS/REQTS RELATIVE
	TO THE ENVI	\$ 5 us(5)
	OPM 14.14.1 OCF FOR	NASA SPACERAOLAS (2/12/07, RZ
	· Sore CAPS - BE	AM LOSS DESIGN PRACTICE
	· QRTLY GW MON	LIORING - ANN. REPT
	· MASKT. PLAN	" MOU other AGREEMENTS W/OTTHER
	· REACTION PLAN	DIVISIONS FOR JULPORT
	OPW 14.23.1 OCF FOR	SMD SMILL SCALE TENNENCY BUSBARTANA
	(Rev. 1. 3/06)	
	OPM 14.31.1 OSH OC	F FOR OHM ACTIVITIES (/24/07/1.
	· CONTROLS DEFINED IN	FORMAL CONDUCTOR OPERATIONS LUSSUE OF VARIETY OF SAFETY
•	(CO) MANUAL -> INC	LUSEVE OF VARIETY OF SAFETY

PREVENTION MEASURES





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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #695	525 & 69528) – EMS/OSHMS Reassessment	
Auditor Name:	Ken Clayman	Date: <u>5/21-25/2007</u>	•
Personnel Interviewed:	·		

Element # C-AD/SCM
442 - TENGRIGHEN/SUPV, ESH INPUT - DEVELOP JTAS PER
JOB CLASSIFICATION - INCLUSEVE OF OVERALL
COMPETENCY RED'TS. EMPLOYEE NOTIFIED BY
E-MAIL; TRACKING BY SYSTEM & SUPV.
* ASSIGNMENTS GEVEN BASED ON TRNG COMPLETION
PERSON CAN HAVE LIGHE THAN / JTA
4.3.3/ - FYOJ C-AD/SNO OBJECTIVES & TARGETS
4.3.4(6) · OPM 14.1 (R.3,3/15/67) EMP FOR C-AD = SCM
4.5.1 ° QEF TO LEGAL/OTHER REDITS
44.3 CATEST SET OF O/TS WERE SELECTED BY
THE WOSH COMMITTEE
4.5.3(0) OTRACKENGIN F-ATS - REV'D F-ATS# 3499 -
4.5.4(E) INCLUDES O/TS AND "ACTION ITEMS"
ONE OFT THAT ALIGNS DIRECTLY W/ LAB-
WIDE PRIORITIES/GOALS
4.5.1 ° DATA COLLECTED USED AS INPUTS TO MGMT.
REVIW
4.5.4(0) - ANNUAL SELF- ASSESSMENT ALSO INCLUDES PEV
4.5.5(E) OF THE SUCCESS OF THE O/TS.
OPM H. 30 C-AD/SMOOSH MP FOR ACCELERATORS,
EXPERIMENTAL AREAS, SHOPS \$ /OR OFFICES (\$/12/0)





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Organization N	Organization Name: <u>Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment</u>					
Auditor Name: Ken Clayman Date: 5/21-25/2007						
Personnel Inter	viewed: _					
In left-hand col	lumn, note	e the element that was a	assessed and any seco	ndary element that was	s assessed.	
Element #		-D/SCM				
4.4.3	$-\omega$	SH COMM. AB	SOUT 15 P	EOPLE - IN	vcreaser	BY 5
4.5.1	Wo	akers THI	es year			
4.4.4	<u>- W</u>	eeky MA	anager :	CNSPECTION	NS -> Wo	exects
4.4.5	Ţ	MYOLVED -	> GREATE	I INVOWA	MENT	C2*
4.5.3(0)	- P.	WO: PERFO	semance I	NDICATORS	FOR CAD	2 - 5 - 5
4.5.48	\sim	LTR '07.(=	5/2Z/0.7)			
4.6	_ F	406 C-AD/	SCH MAN	MEMENT RE	VIEW- 19	11/06
	0 /	AGENDA	-			
	· • (REN'D: PRE	sentation	1 SLIDES F	From MF	L Mrc.
	6	R.O.D	10/23/06			
				5-52W SEL		
1 3 6 66		m. 30, 20	OUT (2/7	-/07) => h	1R FOR	SCM
J. S. Car	<u> </u>	REV'D PRES	SENTATIO	NS ASSCID	W/MANU	TES AS
FS Whas	•	WELL			r	
ما والماري	•	Includes	<u> 602</u>	TRANSFE	LED TO	OPM 14.
		<u> </u>		O COSHMS		
4.5.2(0)	-7	VID: ATS #	+3499 SE	LF ASSESSM	LENT FY	2007
4.5.3(8)	ð	INCORPOR	ATES ALL	OBJECTIVE	TARGETS	BOR GAD

ECORD FROM RESPONSE

NO CHANGE TO PROCEDULES RESILLYED

06 -

MISSIMED,





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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525	& 69528) – EMS/OSHMS Reassessment
Auditor Name:	Ken Clayman	Date: 5/21-25/2007
Personnel Interviewed:	·	· <u>-</u>

Element # C-AD/SCM 4.5.1 - REVID: TERT SCHEDULE - 2007 4.5.2(0) ° RECORDED/REPORTED USENG ATS - REVID EX'S 4.5.3(E) ° PERFORM SPOT-CHECKS AFTER ACTEONS SHOULD 4.6 HAVE BEEN TAKEN ° ESSHQ MANAGER SELECTS ABOUT 10 OR 50 TO COMPLETE ADD'L INSPECTIONS ° ~ 1000 ACTION TIEMS GENERATED
4.5.2(0) RECORDED/REPORTED USENG ATS -> REV'D EX'S 4.5.3(E) PERFORM SPOT-CHECKS AFTER ACTEONS SHOULD 4.6 HAVE BEEN TAKEN ° ESSHO MANAGER SELECTS ABOUT 10 OR 50 TO COMPLETE ADO'L INSPECTIONS
4.5.3(E) PERFORM SPOT-CHECKS AFTER ACTIONS SHOULD 4.6 HAVE BEEN TAKEN ° ESSHOR MANAGER SELECTS ABOUT 10 OR 50 TO COMPLETE ADD'L INSPECTIONS
4.5.3(E) PERFORM SPOT-CHECKS AFTER ACTEONS SHOULD 4.6 HAVE BEEN TAKEN ° ESSHOR MANAGER SELECTS ABOUT 10 OR 50 TO COMPLETE ADD'L INSPECTIONS
4.6 HAVE BEEN TAKEN ° ESSHO MANAGER SELECTS ABOUT 10 OR 50 TO COMPLETE ADD'L INSPECTIONS
° ESSHO MANAGER SELECTS ABOUT 10 OR 50 TO COMPLETE ADD'L INSPECTIONS
COMPLETE ADD'L INSPECTIONS
0 ~ /0(00) ACTION TIEMS GENERATED
700070.00
MOST ISSUES APPEAR TO BE ELECTRICAL CONFLIANCE
=> NEC TRAINING INSTITUTE IS A RESULT
OF THIS RECOGNITION.
Some OF THE DIFFICULTY IN ADDRESSING MORE
ISSUES HAS TO DO W/ # AVAILABILITY.
- CONSTANT DISCUSSION AT MANAGEMENT LEVEL
- DECISION HAS BEEN MADE THAT BEGINNING
IN FY 09 THAT GPP (INFRASTRUCTURE)
FUNDS WILL NOT BE ALLOCATED FOR SCHENCE
ACTIVITES.
- REV'D: QUARTERLY PERFORMANCE EVALUATION
REPORT (\$18407) -> SENT TO ALL BNL, C-AD
MANAGEMENT, CAD STAFF, DOE REP
* CRITTOMES - INCEDENTS THAT ONLY C-AD
DEALS WITH - ATS TRACKENG.





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Auditor Name	<u>Ken Clayman</u> Date: <u>5/21-25/2007</u>
Personnel Inter	rviewed:
In left-hand co	olumn, note the element that was assessed and any secondary element that was assessed.
Element #	C-AD/SCM
4.4.2	- APPROXIMATELY 10,000 TRNG RECL'TS APPLY TO
	ALL C-AD/SCM STAFF - BENERALLY ONLY NZ-3%
	NON-COMPLIANCE AT ANY TIME
4.4.6	REVIND FOLLOWING OPERATIONAL DOC'S (ALL OPMS)
4.4.4	2.1 OPERATIONS ORGANIZATION & ADMIN. (REV. 4 4/18/0
4.4.5	=7 SETS RRA'S FOR C-AD DEFATIONS PERSONNEL
4.3.1	2.5.2 RHIC ACCELERATOR SAFETY ENVELORE PARAMETERS (RT.
4.3.2	=> PLANNENS INCLUDED ON RSC/ASSEC/ESRC CHECKORE
4.4.7	LISTS IN THE MAIN CONTROL ROOM
	SEVERAL LOTO PROCEDURES INCLUDED IN CH. 2 OF OPM
	2.19 RESPONSE TO WATER "MAKE-UP" ALARMS (R5, 5/29/06)
	2.29 PROCEDURE FOR ENHANCED WORK PLANNING FOR
	EXPERIMENTERS (R3, 5/26/04)
	9.2.1 REVING EHOS ASIECTS OF AN EXPERIMENT (RB, 9/12/05)
	1.7.1 C-AD HOUSEKEERING POLICY (RØ, 16/17/06)
	1.12 Tang & QUAR. PLAN (R5, 2/22/06) - VERY THOROUGH
	1.14 GEN' REATS FOR LIOUED & Chirocon STORMER (RZ, 6/16/05
	- EMPHOSIS ON MONITORING MANAGEMENT
	1.15 LIQUED E ATRONNE EFFLUENTS (R3, 3/15/07)
	1.27 MANAGER WALK AROUND & SAFETY OBS. REPT (RZ, 1/2/07)
	CH. 3 INCLUDES A SARGESET OF EMERGENCY PROCEDURES >
	Covers BOTH BUDGS AND SPECIFIC OPERATIONS; TACLUSES

ID OF EMERGENCY HAZARDS



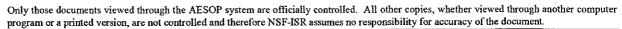


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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment	
Auditor Name:	Ken Clayman	Date: <u>5/21-25/20</u> 07
Personnel Interviewed:		

outiful, note the element that was assessed and any secondary element that was assessed.
C-AD/SCM
CH. 14 EMS/OSITMS SPECIFIC PROCEDURES - EX
14,2 EMS PROCESS AGESESSMENT FOR TANDEM VAN DE
GRAAFF FACILITY (R2, 1/22/07)
14.2.2 EMS TEATHING FOR TANDEM VAN DE GRAFF
FACILITY (R2, 1/22/07)
14.5 EMS PROCESS ASSESSMENT FOR MAGNET CLEANING
OPERATIONS (R2, 2/12/07)
9.8.1 WOSH COMMETTER POLICY & REQ'TS (RZ, 1/30/06)
-> MTG AT LEAST QUARTERLY
C-A MAKN CONTROL ROOM (MCR)
T SHREY - OPS. COORDENATOR
- CONTROLS ALL ACCELERATORS
- LIAISON FOR EXPERIMENTERS
- WORK TO MENINIZE RADIATION - USING HEAVY TONE
- WORK PLANNING - MUST BE COMPLETED BEFORE WORK
IS DONE
OMCR WORK CONTROL SYSTEM (ONLINE)
· REVID EXAMPLES - JOB#47 VACUUM LEAK. CITECK
(LOW HAZARD); JOB#56 TROUBLES/1007 ANODE SUPPLY
FOR THE XI rf CAVETY
- DESCRIBED TRUG REDTS FOR WORK IN MCR





Organization Name:



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AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

Auditor Name	Ken Clayman	Date: 5/21-25/2007
Personnel Inte	erviewed:	
In left-hand co	olumn, note the element that was assessed a	nd any secondary element that was assessed.
Element #	C-AD/SCM	
4.4.6	- RADIATORN- CONT	MINITORING WHEN BEAM IS
4.5.1	RUNNING	·
4.3.3	· Neutron Moni	TORS (CHIPMONES) - CONSTANT MONI-
4.4.3		S MODILITORING -> PREMARILY POR PER-
4-4.1	JONNEL MONITORI	WG CAN BE USED FOR ENV. AS WELL
	- OBJS- MINIMIZ	E RAD/HZ205
	- MEMBER OF WOST	+ COMM - DESCRIBED INVOLVEMENT, ROLLS
4.4.4	- KERP SET OF OPM	5 AS HARD-COPY BACK-UP TO ONZINE
4.4.5	DOCUMENTS	
	- USE TEMP. PROCE	DURES IN CASES OF SHORT-TERM
	EXPERIMENTS (R	
4.4.2	- ALL CREATORS MU	ST READ & ACKNOWLEDGE ALL APPLICA
	BLE OPMS SERO	RE STARTING WORK.
	i • /	READ DOCS, GET LAB-RELATED
1		A = A = A

V. INGRASSIA - SEMOR GRELDE 442 - DESCRIBED MCR TRAIS DONCES

RANG BROCESS/REDITS

ing. Ker 175 - cover

4.5.4(E) UP TO 4 WEEKS

SIGN-OFF

CXCESS OF LAB REGID TRING.





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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment			
Auditor Name:	Ken Clayman	· · · · · · · · · · · · · · · · · · ·	Date: 5/21-25/2007	
Personnel Interviewed:	MCR GRA MOR			

C-AD/SCM
"AFTER OPM TRNG COMES MACHINE BASED TRNG (CASSESON).
TENG INVOLVES COMBO OF READING, OBSERVING, DOING
" WORK CAN START BEFORE ENTIRE SET OF REQ'S TRNG
IS COMPLETED
" ALL TRAGIS TRACKED - CLASS ATTENDANCE (RECORDS
(REV'D) -> EXAMS TO DEMONSTRATE UNDERSTANDING
FCOMPLETION
" MACHINE SPECIALISTS -ADO'L REQITS.
° EH & SISSUES CAPTURED IN TITE BASIC OPM TRNG
IN FIRST FEW WEEKS
GATHERS REEDBACK FROM CHEW CHIEFS RE: COMPETENT
PERFORMANCE BY OPERATORS, TECHS, etc. , PERF. APPRAISA
AS WELL. GENERALLY RECORDED ENFORMALLY (E-MATES)
- (LEVID! FEEDBACK FOR A PERF. APPRATISAL EMPUT.
(FROM A SHIFT SUPV FOR A TECH TO GROUP LOVE)
· OPM TRNG-SIGN-OFF BY DEP. GRE LOR
ANNUAL REQUALIFICATION TRAINING EXLESTS (Z TYPES)
NSRL-M. SIVERTZ-PHYSICEST
- DEFFERENT TYPES OF EXPERSMENTS- MOST BIOLOGICAL,
OTHERS-OHYSICS
- M.S COORPENATES PHYSICS EXPERIMENTS, OPERATE BEAM LINE





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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment		
Auditor Name:	Ken Clayman	Date: <u>5/21-25/2007</u>	
Personnel Interviewed:	NSRL - A. Rusek-	PHYSICIST/MAIN LIASTON	

Element #	C-AD/SCM
4.3.1	- RAD HZROS - MINIMAL DUE TO EXISTENS CTRLS
4.4.67	"IRIS SCAN - KEYED TO COMPLETION OF APPROPRIATE TENC
, ,	=> ACCESS TO TARGET RM.
	- BIOL. HEROS - LELL SAMPLES, LIVE ANIMALS
	DOL CONTAINMENT FOR CELLS
	" RAD TECH PRESENT DURING BEAM WORK
	" MOST BED WORKDONE AT MEDICAL FACILITY
	- ENV. ASPECTS - RADIATION SOURCES (BEAM) -> BEAM
	DUMP (CONC/DIRT PELE) => DESIGNED TO ACCOUND DATE
	IRRADIATION OVER A MULTI-YEAR PERIOD. TO DATE
	THEY HAVE NOT USED 10% OF AVAILABLE CAPACITY.
4.5.1	* DURING COMMISSIONING - TESTS COMPLETED TO DE-
	TERMINE EXTENT OF PROBLEMS QUEING "FALLET"
	CONDITIONS.
	- WATER WASTES - MANAGED AS SUSPECT RAD WASTES
	(FROM ANIMAL EXPERIMENTS) > 5 GALS/3 YES)
4.3.3	- SLIMINATED FILM OPS - CHANGED TO DIGITAL CAMERA
	SYSTEM
	- SHEELD ING MATILS - HANDLED AS RAD.
	USED MORE THAN ONCE BEFORE DISPOSAL
	O HEALTH PHYSICS MANAGES



Organization Name:



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AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

Auditor Name:	Ken Clayman Date: 5/21-25/2007
Personnel Inter	rviewed: MAGNET - T. DELGEN- TECH PROI SUPV.
In left-hand co	lumn, note the element that was assessed and any secondary element that was assessed.
Element #	
45.1,4.5.30	1014 CRAME / HOIST INSPECTION CKLIST - PEN'D RECORDS
45.4(8)	
	EHSQ-D
4.3,4.4	B. SELVEY - IH MANAGER D. BAUER - ECR
4.5	O/TS ESTABLESHED AT DEPT/DEV/OFFICE CEVEL
	- RAB CON MS- FYOF WORK Scope & SELF-ASSESS
	PLAN (R1, 1/23/07)
	- ECWNSD SELF-ASSESSMENT PLAN & FY 2007 & (R. Q, 19/12)
	- REN'D: ESHE Q ASPECTS ANALYSIS (RB, 5/18/07)
	- TUCLUDES ASSESSMENTS SCHEDULE IN ADD'N TO
	E/OSH O/TS/EMPS
	- QMO FY2007 ANNUAL PLAN
	- SHSD FYO7 BUSINESS FLAN (1/26/07)-ATT. 7.1
	REG COMPLIANCE, MANAGEMENT SYSTEM : SEET
	ASSESSMENT PLANS
·	- SHSD FYO7 OSH COSTECTIVES (R1, 4/26/07)
	° 2007 INTERNAL EVALUATION OF THE OHF SMS FOR
	SHSD RECORDS MANAGEMENT, DOCUMENT CONTROL &
	REQUIREMENT MANAGEMENT (DRAFT, RI, 5/14/07) =>
	THOROUGH AMP COMPLETE - SHOULD RESULT IN
	BUBSTANTIAL EMPROVEMENTS IN DIVESTON
1	





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Organization Name:

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

Auditor Name:

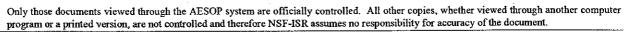
Ken Clayman

Date: 5/21-25/2007

Personnel Interviewed: M. DAVIS - PROJECT ENGR.

In left-hand column, note the element that was assessed and any secondary element that was assessed.

Element #	ESHQD - EWMSD
4.4.1	-NEPA PGM, PCB MGMT, CULTURAL RESOURCES, SELF-
	ASSESSMENT COORD
4.3,3	= SAP GORD -0 PRODUCE PLAN PER FY; MEET W/MGR +
4.3.4(0)	
4.5.1	DISTRIBUTE: OTRLY REPORTS
4.5.3(0)	" EWMSD QTRLY REPORT - 2 ND QUARTER PYO7
4.5.4(E)	(5/15/07)
4.4.4	· EWMSD SELF-ASSESSMENT PLAN (SAP) FY2007
4.4.5	(RØ, 12/12/06)
	- MOST ITEMS ARE TRACKED IN FAMILY ATS (FOR
	SAP - INCLUSIVE OF E/OSH O/TS)
	- COPPLY REPORT INCLUDES STATUS OF PROGRESS
	TO ACHIEVE O/TS - PEUD IN DEPTH - MOST
	ITEMS APPEAR TO BE ON TARGET SCITEDULE
4.3.1,	- NEPA REVIEWS - SHOWED DESCRIBED PROCESS
4.4.6	USED. REVIW COMPLETED FOR JUST ABOUT ANY
4.3.2	ACTIONS AT THE SZTE- LAB EXPERIMENTS,
4.5.2(E)	
	" REV'D: MEMO - NEPA REV'W OF BNL WED PROPOSAZ
	W/RMD, INC. (5/22/07).
	DOE MUST MISO CONCUR, STEN-OFF OF PROPOSAG
	PROJECT REQUESTS RE. NEPA ISSUES





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AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

Auditor Name	: Ken Clayman	Date: <u>5/21-25/2007</u>
Personnel Inter	rviewed:	· · · · · · · · · · · · · · · · · · ·
In left-hand co	dumn, note the element that was assess	sed and any secondary element that was assessed.
Element #	ESHQD-EWMSD	
4.4.6,	° ENV. EVALIN. A	LOTIFICATION FORM - USED WHEN PROTECT
4.5.2(E)		TINTO CATEXCUSCON. DEFENSS
4.5.4(E)	CONTROLS FOR	2 ISSUES ID'd -> COULD LEAD TO
	AN EA.	
433		- 90% OF PCB-CONTAINENC EAPAT
	HAS BEEN REMO	VED OVER PAST 6 YRS (TRACKING
	CHART AS OF 10	2/2/06)
4.3.1,		CR MANAGENEUT (3/05)
4.3.3	" REV'W OF BU	DGS > 50 yrs, DETERMINE IF THEY
4.4.4	SLIGIBLE ROC	3 FACILITIES ARE LISTED
	- SO FAR,	3 FACILITIES ARELISTED
4.3.2	°CR MONT -	LEGAL REQ T
		FNGR/CULT-NAT. RES. MGR.
4.4.1	- OVERSEE MGMT/	CARE OF LAND AT LAB THAT IS UNDE-
	VE LOPED	
	- COORDENATION (WEXT. GROUPS ON (TRAL PINE BARREN
	AREA IN L. I.	,
442	- EDUCATION COOR	& FOR DIV> COOPD. W/ EDUCATION
	DIV. ON PLA	CENG STUDENT INTERNS
	- WORKS W/M. DA	VIS ON NEPA REVIEWS TS FROM NEPA & ESRS
4.3.1	- PICK-UP ASPEC	75 FROM NEPA & ESRS



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Organization N	Name: <u>Brookhaven National Lab (FRS #6952</u>	Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment			
Auditor Name:	Ken Clayman	Date: 5/21-25/2007			
Personnel Inter	rviewed:				
In left-hand co	plumn, note the element that was assessed and any	y secondary element that was assessed.			
Element #	ESHQD-EWMSD				
44.1,	- REV'W! WORK BLANS PE	OR EHFS ISSUES - REVIEWS			
		TO ENSURE PROPER TRAINING OF			
44.2	STUDENTS RE! EHS	REQ 175			
	- EMPHASIS ON TICK TO				
4.3.3	- LAST GLOWING OF PERF.	PRACK GOALS - HE HELPED TO			
4.5.1	· · ·	AND IN NATINE VEGETATION			
	MODE.				
4.3.2		UPACTS ON NYS THREATIND/ENDABGER			
4.4.6	SPECIES & TIGER SAZ	AMANDERS) LO LEGAL REDITS			
4.5.1	ANY SOIL DISTURBANCE	- THEY REVIEW, MAY ADD RESTRIC			
4.5.4(8)	TIONS (DEGGING PER	MITS)			
	" MONITOR BY OBSERV	ATION (REANT ENGRALSO IN-			
	SPECTING) - OB	S'NS NOT RERORDED.			
		ENSTRUCT A NEW RECHARGE			
	BASIN AT RHI	C; PAYENG /002: 1004-			
* .		1-4727-60032/00135			
4.4.2	- RESPONSIBLE FOR 2 EM	PLOYEES - ENSURE THEY UNDER-			
4.4.1	STAND ROLL/RESPONS	INTLITIES RE: HES, WORK			
	W/STUDENTS-INTER	ns if Boss.			
	,				





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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment		
Auditor Name:	Ken Clayman	Date: 5/21-25/2007	
Personnel Interviewed:		<u>*</u>	

In left-hand column, note the element that was assessed and any secondary element that was assessed.

	· · · · · · · · · · · · · · · · · · ·
Element #	ESHQD-3HSD
	P. WILLIAMS - SHSDMOR, B. SELVEY - IH MOR.
4.4.3	- STAFF MTGS / ALL HANDS MTGS - DISCUSS EHES
4.3.	TSSUES
4.4.6	- ENV. ASPECTS - ONE SIGNEFICANT - HAZ WASTE
4.4.2	IN SAMPLE COLLECTION/CALIBRATION GROUP
4.4.4	- Il Group - Parcooures, ALL STAFF TRND
4.4.5	° IH50200 - IH GROUP'S OSH PROGRAM & OHSAS
4.1	18001 REGISTRATION => DURING TRNG, GO OVER
	JRAS, POLICY, ROLES, ETC (JPM COMPLETION
	CERTIFICATE -S ATTACHED TO PROC)-R1, 10/10/05
	° IH 50900 IH GROUP'S EMS PROGRAM (RB, 2/1/07)
	- SHSD OPERATION ENVIRONMENTAL EVALUATIONS
	(50 EE; 9/16/06) -> LIST OF EVALUATIONS
	FOR ALL IH GROUP ACTIVITIES/OPERATIONS
	EACH EVAL ALSO LINKS TO THE FRASKTRAS
	EX: SHSD-EMS-ODA AIR CURRENT INDICATOR
	TUBES (R2, 3/14/07)
	- REVID: SHSD JRAS/FRAS!
101	= 5HSD-JRA-01 HEPA FILTER SURVEILLANCE
(a-1	1/4/07) TESTING IN-PLACE SYSTEMS & VACUUM GEANERS
	° SHSD-FRA-01 BLOG /20 (12/13/06, R2)



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Organización ivai	ne. <u>Biookhaven Nanonai Lao (FR</u>	S #09323 & 09320) - EIVIS/OSTIIVIS REASSESSITEIT
Auditor Name:	Ken Clayman	Date: <u>5/21-25/2007</u>
Personnel Intervi	ewed:	· <u>-</u>
In left-hand colur	nn, note the element that was assessed	d and any secondary element that was assessed.
	esh a d-sh5d	
4.4.3 -	-Revio: "Primer	on OHSAS 18001" (5/18/07)-
4.4.2	PRESENTED AT AL	L HANDS MIG
_	-SHSD ALLHA	NOS MTG (PRESENTATION - /17/06)
	- ESH COORDINA	TOES - MEET MO'LY - MINUTES
		REN'D AGENDA/RECORDS-2006
-	- REN'O: LIST	- OF JTA LINES FOR SHSD
	EMPLOYEES	
4.5.3(0)-		3001 DOCUMENTS/RECORDS MAINTAE
·	BY SHSD (3	/2/07) - INDICATES RETENTION
·	REQ'TS & F	TLE CODES NOTING STORAGE LOCATION
(±	RAD CON- C. SCHAE	ERECZ - MANAGER
4.4.1 -	· SUPPORT SETE FO	UNCTIONS RE: RAD OPERATIONS, SOME
	IH	
-	- ACCELERATORS, L	NASTE MONT, BENCH-TOP ITEMS
4.5.1 -		IION/CALIBRATION
4.4.6 -	the state of the s	-OWN TLD ENDECATORS (WHOLE-
	BODY DOSIMETE	es).
4.4./ -		ATORETY OF ACTIVITIES - 7 GRPS
	· RESIDEATION	ACCELERATOR FLO
	· WASTE MOME	· · · · · · · · · · · · · · · · · · ·





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Organization Nat	me: Brooknaven National Lab (FRS #69525 & 69	7528) – EMS/OSHMS Reassessment
Auditor Name:	Ken Clayman	Date: 5/21-25/2007
Personnel Intervi	iewed:	. =
In left-hand colur	mn, note the element that was assessed and any secon	dary element that was assessed.
	ESHQD-RAD-CON	
4.4.2 -	"PROFESSIONALS" - DISTI	ELD, SUPV. EXPERIENCE, 3 VRS ES+H
	DEGREE IN RELATED FI	ELD, SUPV. EXPERIENCE, 3 VRS ES + H
	"GRADED PROCESS PER LE	VEL OF EXPERIENCE AND TO
	ADVANCE	
	MONITOR UNGOING COMPE	ETENCY/PROGRESSION?
	CLASSROOM TRAINING	
·	TIME REQITS PE	e ANSI 3.1 STD
	(NUKE IND.)	
·	· ORAL EXAMS - PG	M REQITS - THEORY, INST, 2 OTHER CATEGORIE
	* ANNUAL PERF. REVIL	U S CATEGORIE
444 -	- PROCEDURALLY GOVERNE	D - MANUALS CREATED TO
4.4.5	GUIDE TESTENG, RE	V'D TRIENNIALLY
4.4.6		
	TIVE EXAMS (RZ, 1/3)	
4.3.1		VITIES GENERATE LLRW,
	BATTERIES, SOME RAD SOU	RCES (RETURNED TO ORNL),
	SAMPLES W/RAD, NON-RAD F	KG WASTES
	HAZARDS/RISKS - RADS	ESSUES, CARRYING HEAVY
	SOPMI, EXTENSIVE WA	ESSUES, CARRYING HEAVY HIKENG, IH WORK (NOISE, HE LAB'S ISSUE
	LEAD), SEVERAL OR T	HE LAB'S ISSUE
	TRA-OI RCT (R4.	5/8/07)



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Organization Nan	Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment		
Auditor Name:	Ken Clayman	Date: <u>5/21-25/2007</u>	
Personnel Intervie	ewed:	<u> </u>	
In left-hand colun	nn, note the element that was assessed and an	secondary element that was assessed.	
Element #	ESHEOD-QMO		
خد	J. WILKE - QUALETY	ENGR	
	WORKING ON HUMAN &		
4.3.3	HELPED DD w/OPS	PLAN, ASSESTENG W/PERIODE	
	REVIEWS		
	CONDUCTS CAUSAL AN		
4.5.3(8) -	ISM/SAFETY IMPROV	EMENT PLAN SUPPORT - CREATED	
	QMO DETATLEO PR	OJECT PLAN	
4.3.2	" SMPHASIS ON DEV.	TO REQ'TS VERIFICATION	
	TASK, REVISTON	70 SBM5	
4.3.1 -	ENV. ASPECTS - CAPE	(REYCLENG), INK CARTRIDGES,	
4.4.4	ENERGY USE CONSER	(ATION	
4.4.5 -	REVIO: QMO FR	7	
4.5.3(6)		DREVENG VEHICLES (R1, 5/21/07	
4.5.4(E)	° JRA-QMO-02 U	SALKING (R2, 5/21/07)	
		FF GEN'L OFFICE SPACE & KETCHEN	
	AREA (R2, 5/22)	(07)	
4.3.3 - QMO 0/Ts/APS ("/30/06)		(1/30/06)	
	°2 EMS, 40SH	US OBJECTIVES	
NOTE- WORTHY	REQUIREMENTS M.	ANAGEMENT SA -> CLEAN-UP,	
SOKIHY	REVISION, VERI	EICATION EFFORTS; SUPPORT	
	TO ISM/SAPETY.	TAPROVENENT SFRORT DWELL	





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Organization Name:		Brookhaven Nationa	al Lab (FRS #69525 & 69	9528) – EMS/OSHMS Re	eassessment	
Auditor Name:		Ken Clayman		Date	e: <u>5/21-25/2007</u>	
Personnel Interv	viewed: _					
In left-hand colu	umn, not	e the element that wa	as assessed and any secon	ndary element that was as	sessed.	
Element #	ESH	FQD-QOOD	DO Assoc. LAB Da	R (ALD - J. 7	PEPINIAN)
4.5.1	- Ir	IJURIES R	ATE IS UP (FROM F406 -	= BASER	ON REVIUS
4.5.2(0)	AS	PEARS RE	LATED TO I	MADEQUATE	WORK PLA	+MNING
453(E)			SSUES; CU	•		
	BE	"ACTIVI	ETY OF LIFE	" INCIDEN	TS NOT F	-ROM
	LA	CK OF FELL	LOWENG RE	Q'TS		:
	• 1	DOKING TO	INSTITUT	E A "SAFE	TY IS ZY	1/7"
		AMPAIGA	V - Jus	T IN PLANT	VING P	HA52
	8 /	THINKING	ABOUT GE	ITING BPE	PISCO	OUNTS AT
		LOCAL R	ETAIL ST	DRES.		
4.5.2(8)-	<u>- S</u>	W. COMPLE	TANCE - MU	CH BETTER	RESULT	s Worki
		*	ADDRESS			•
	<u>D</u>	DENG MO	BE IN THE	PREV ACTI	ON DIREC	TJON.
4.5./	-	RYING MO	RE TO DEV	ELOP METR	ICS 774	HT PRO-
	V	IDE ZEA	DING" IN	DICATORS	OR PREC	cursors
, ,			BLE EVENTS			
4.5.3(E) - EVENTS & ISSUES MANAGEMENT		GEMENT SA	T- PROV	IDES A		
4.5.2(0)	ME	ANS 78 (refort this	CIDENTS BELL	360 we	-REPORTA
<i> _ </i>			sholds -> (_		
4.6	OF	POSS IBO	LE MOVERSE	CONDITIONS	· .	
	0	LSO USIN	IG MANAGEN	LENT CONCERN	15 OR "	NEAR-
			_	s to HELP		

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AUDIT NOTES

Organization Name:	Brookhaven Nationa	l Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment	_
Auditor Name:	Ken Clayman	<u> </u>	Date: 5/21-25/2007	
Personnel Interviewed:	ESHQD.	-ALD		

In left-hand column, note the element that was assessed and any secondary element that was assessed.

4.3.3 ANOTHER SET OF LI DATA - DAFETY OBSERVATIONS 4.4.3 - REV'D CHART OF #SAFETY OBS/MO FOR FYOT YTO (THRU MAR.) > DATA ARE ALSO BROKEN DOWN BY TYPE OF ISSUE(S); SHOW PPE TO BE THE MOST OUTSTANDENC SET OF ISSUES. "TAKENG INFO. TO DERECTOR'S SAFETY COMM. FOR FURTHER AND ALYS CS & ACTION PLANNENG		
4.4.3 - REV'D CHART OF #SAFETY OBS/MO FOR FYOT YTD (THRU MAR.) => DATE ARE ALSO BROKEN DOWN BY TYPE OF ISSUE(S); SHOW PPE TO BE THE MOST OUTSTANDING SET OF ISSUES. "TAKING INFO. TO DERECTOR'S SAFETY (DMM. FOR FURTHER HANDLYSES & ACTION PLANNING 4.6 MANAGEMENT CEVIEWS - SEPARATED - EV.O3H 4.53/O) PERF. GOALS - TED TO HANNAL BUS PLAN, LAB 15.H(E) BUS. PLAN, RZAZS, ESSH GOALS - MTG. MINUTES - SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) EMS/OSH MGMT REVW (9/22/06) "MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OFT'S -> TRACKED IN	Element #	
4.4.3 - REV'D CHART OF #SAFETY OBS/MO FOR FYOT YTD (THRU MAR.) > DATE ARE ALSO BROKEN DONN BY TYPE OF ISSUE(S); SHOW PPE TO BE THE MOST OUTSTANDING SET OF ISSUES. "TAKING TOPO. TO DERECTOR'S DAFETY COMM. FOR FURTHER ADDRESS & ACTION PLANNING 4.6 MANAGEMENT REVIEWS - SEPARATED - EV. 03H 4.53/0) PERF. GOALS - TIED TO ADVIATE BUS PLAN, LAB 15.4(E) BUS. PLAN, RZAZS ESSH GOALS - MTG. MINUTES - SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) EMS/05H MGMT REVW (9/22/06) "MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OFT'S - TRACKED IN	4.3.3	ANOTHER SET OF LI DATA - DAFETY OBSERVATIONS
DOWN BY TYPE OF ISSUE(S); SHOW PPE TO BE THE MOST OUTSTANDING SET OF ISSUES. "TAKING INFO. TO DERECTOR'S SAFETY COMM. FOR FURTHER MAN PLYSES & ACTION PLANNING 4.6 MANAGEMENT CEVIEWS - SEPARATED - EV. 03H 453(0) PERF. GOALS - TIED TO ANNUAL BUS PLAN, LAB 15.4(E) BUS. PLAN, RZAZS, ESSH GOALS - MTG. MINUTES - SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) & MS/05H MGMT REVW (9/22/06) "MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OFT'S - TRACKED IN	4.4.3	
THE MOST OUTSTANDING SET OF ESSUES. "TAKENG ENFO. TO DERECTOR'S SAFETY COMM. FOR FURTHER HAVALYSES & ACTION PLANNENG 4.6 MANAGEMENT REVIEWS - SEPARATED - EV. 03H 453(0) PERF. GOALS - TIED TO ANNUAL BUS PLAN, LAB 15.4(E) BUS. PLAN, RZAZS, ESSH GOALS - MTG. MINUTES - SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) EMS/05H MGMT REVW (9/22/06) "MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OF I'S -> TRACKED IN	٠.	XTD (THRU MAR.) => DATA ARE ALSO BROKEN
TAKENG INFO. TO DERECTOR'S SAFETY COMM. FOR FURTHER ANDLYSES & ACITON PLANNENG 4.6 MANAGEMENT CEVIEWS — SEPARATED — EV. OSH 4.53(0) PERF. GOALS — TIED TO ANNUAL BUS PLAN, LAB 1.5.4(E) BUS. PLAN, RZAZS, ESSH GOALS — MTG. MINUTES — SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) & MS/OSH MGMT REVW (9/22/06) MRS — PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OFT'S — TRACKED IN		DOWN BY TYPE OF ISSUE(S); SITON PPE TO BE
COMM. FOR FURTHER ANDLYSES & ACTION PLANNING 4.6 MANAGEMENT CEVIEWS - SEPARATED - EV. 03H 4.53/0) PERF. GOALS - TIED TO ANNUAL BUS PLAN, LAB 15.4(E) BUS. PLAN, RZAZS, ESSH GOALS - MTG. MINUTES - SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) EMS/05H MGMT REVW (9/22/06) MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OFF'S - TRACKED IN		·
PLANNENG 4.6 MANAGEMENT CEVEEUS - SEPARATED - EV. 03H 4.53/0) PERF. GOALS - TIED TO ANNUAL BUS PLAN, LAB 15.4(E) BUS. PLAN, RZAZS, ESSH GOALS 5 - MTG. MINUTES - SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) & MS/05H MGMT REVW (9/22/06) "MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OFF'S -> TRACKED IN		"TAKING INFO. TO DERECTOR'S SAFETY
4.6 MANAGEMENT CEVERUS - SEPARATED - EV. 03H 4.53(0) PERF. GOALS - TIED TO ADMINAL BUS PLAN, LAB 15.4(E) BUS. PLAN, RZAZS, ESSH GOALS - MTG. MINUTES - SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) EMS/05H MGMT REVW (9/22/06) "MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERNENE OF I'S - TRACKED IN	·	COMM. FOR FURTHER MANALYSES & ACTION
4.53(0) PERF. GOALS - TEED TO ADNUAL BUS PLAN, LAB 15.4(E) BUS. PLAN, RZAZS, ESSH GOALS - MTG. MINUTES - SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) & MS/OSH MGMT REVW (9/22/06) MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OFF'S - TRACKED IN		
15.4(E) Bus. PLAN, RZAZS, ESSH GOALS - MTG. MINNTES - SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) & MS/0514 MGMT REVW (9/22/06) *MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OF I'S - TRACKED EN	4.6	MANAGEMENT CEVIEWS - SEPARATED - EV. 03H
15.H(E) Bus. PLAN, RZAZS, ESSH GOALS - MTG. MINNTES - SUPPORT ORGS. REPORTING TO THE DIRECTOR (SORD) & MS/OSH MGMT REVW (9/22/06) "MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OF I'S - TRACKED EN	4.5.3(0)	PERF. GOALS - TEED TO ANNUAL BUS PLAN, LAB
TO THE DIRECTOR (SORD) EMS/OSH MGMT REVW (9/22/06) MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OFF'S - TRACKED EN	4.5.4(8)	Dus. PLAN, RZAZS, ESSH GOALS
MGMT REVW (9/22/06) "MRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OF I'S -> TRACKED EN		= - MTG. MINUTES - SUPPORT ORGS. REPORTING
OMRS - PROVIDE OPPORTUNITY TO EVALUATE MS DATA AND DETERMENE OF I'S - TRACKED EN		
DATA AND DETERMENT OF I'S - TRACKED EN		
DATA AND DETERMENT OF I'S - TRACKED EN		"MRS - PROVIDE OPPORTUNITY TO EVALUATE MS
ATS.	<u></u>	
		ATS.
	,	



Organization Name:



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AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

Auditor Name	Ken Clayman Date. 5/21-25/2007
Personnel Inter	rviewed:
In left-hand co	lumn, note the element that was assessed and any secondary element that was assessed.
Element #	ESHQD-LTRA
	W. DORSCH - LTRA GROUP MOR., V. RACANTELLO - PROJECT MOR
4.3./	- MONITORING SAMPLING WORK, DRILLING
4.4.6	- TICKS! - PREPARATION, BPE, USE OF SARAYS,
	CHANGE CLOTHES
	- STF's,
	- CONTRACTOR MANAGEMENT - A BIG FACTOR, USE OF
	LONG-TIME GROUPS & INDIVIDUALS HELPS MAINTA
	GREATER SAFETY/ENV. CONDITIONS
4.5.1	"FIELD ENGRS OR GEOLOGISTS OVERSEE MUCH OF
	THE WORK, ENSURE IMPLEMENTATION OF REQ'TS
4.4.3	DAILY TAILGATES ? COVER EHS AS WELL AS OPERA-
4.4.2	"WEEKLY MTGS I TLONAL
-	- ROVID: FRAS/JRAS
4.44	"OFF-STE GWTS (05-1-08-6, Q1,5/16/07)
4.4.5	"GW/ POTABLE WATER SAMPLENG (R1, 3/16/06)
	- LTRA O/Ts - QTRIY REPORT - 2'ND QTR'07
	- EM-SOR-213 FEED ACTIVITY OVERSIGHT OF (SUB)
	CONTRACTORS (BEV. \$ 12/15/06)
i.	





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Organization Name:		Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment			
Auditor Name:		Ken Clayman	Date: <u>5/21-25/2007</u>		
Personnel Inter	rviewed:				
In left-hand co	lumn, no	te the element that wa	as assessed and any secondary element that was assessed.		
Element #	251	tad - W	Υ		
	M.	CLANCY-	Der. DIV. Mar.		
44.1	- 28	XXICE LA	IB FOR ALL TYPES OF HAZ/RAD WASTE		
4.3.1	06	ICK-UP,	PREPARE, PICG		
4.3.3	٥	WATER -	EXTHER SOLIDIFY OR SHEP TO CAKREDS		
4.4.2	- 21	+9 CLEAN	ETHER SOLIDIFY OR SHEP TO CAKRIDGE OUTS - MATILS SEPARATION, LAB		
	FA	CKING, A	RRANGE SHIPPING		
			RCRA BLAG - ONLY 1/2 OF BLAG IS		
	0	PERATED B	SY WM		
	0 (RESULT OF	SIGNIFICANT RED'N OF WASTE GEN		
	· Ę	FROM AR	OUND THE LAB		
	<u>- S</u>	sv. Aspects	5 TABLE - JUST ABOUT ALL ARE		
	> 3	CENIF:	-> CONTROLLED BY OPERATIONAL CTRL		
	P	COCEDULES	(Revio INDEX)		
	- 76	CAS/FRAS	- REV'D ONLINE		
4.3.3	-2	en's O/TS	MPS & RESULTS THRU 7 DIR FYOT		
4.3.4(0)	9	WHEN TH	tey DISCUSS SAFETY ISSUES - TALK		
4.5.3(0)			PERSONAL AS WELL AS WORK ENV'S		
4.5.4(8)	0		O PROCEDURE FOR DIVISION RE:		
		SAFETY	OBSERVATIONS		
	•		D ACTIONS/STATUS OF MPS		
	I.				

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AUDIT NOTES

Organization Name:	Brookhaven National Lab (FRS #69525	& 69528) – EMS/OSHMS Reassessment
Auditor Name:	Ken Clayman	Date: 5/21-25/2007
Personnel Interview	ed: RAD CON - MGR	<u>-</u>
In left-hand column,	, note the element that was assessed and any s	econdary element that was assessed.
Element #		
4.3.3 R	-AD GRI MANAGEMEN	T SYSTEM - FYOT WORK SCOPE
	SELF-ASSESSMENT PL	AN (R.1, 1/23/07)
	REQ'TS MANAGEMENT	
4.5.2(2)	· INCLUDED IN SETE	- WIDE RAD CON MANUAL
4.5.1(0)	"USE INFO TO DEVEL	OP MAJATAIN PROCEDURES
4.4.4	USE AS BASES FOR	TRATALING
4.5.3(0)	" MANAGERS SUBSCR	CBED TO VARIOUS JUNEO SOURCES
4.5.4(E)	TO KEED-UP W/LED	FAL, OTHER REQITS - EFCOG
	LEEM NEWSLETTER	, CFR'S, NETWORKING, HEALTH
	VHYSIES DOCTETY	
, c	BENCHMARKETNG V. O	THER DOE FACILITIES/SITES
•	SURVEELLANCE GROGE	AM, USING CKLESTS, TO CONFIRM
	COMPLIANCE W/REL	
	- 2 Surv's/Q7	
		MANAGER'S REVIEWS
	- REVID! RECORDS	OF SURVETLLANCE REVIEWS-S
		DROSED IN FAMILY ATS
,		SMENTS - KEQ'D BY DOE,
	10 CFR 835 - CON	ER ALL AREAS OVER 34R PERSOD

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Organization N	Name: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name	Ken Clayman Date: 5/21-25/2007
Personnel Inter	rviewed:
In left-hand co	lumn, note the element that was assessed and any secondary element that was assessed.
Element #	RADCON
4.5.3(8)	- REVID: CORR. ACT. PLAN & CAUSAL ANALYSIS FOR
4.5.2(0)	ENERGENCY EXPOSURE SETURTIONS, NUKE ACC.
	DOSIDET PLAY & RAD SAFETY TRUG (5/10/07)
4.5.1	DOSINETRY PROGRAM IS ACCREDITED UNDER DOE LAP
4.5.2(2)	
	"REN'D: "BNL RADIOLOGICAL NEWS" (13 OTR '07,
	4th QTR (06) - DISTRIBUTED TO ALL QUALIFIED
	RAD WORKERS
	"Revio: OtTs STATUS REPORT FOR RCD (THRU
	March (07)
4.5.1	IH LAB - R. So Utison - IH LAB MGR
4.5.3(0)	- CALED OF EAPMT - ON-SITE & OFF-SITE
4.5.4(8)	- RESPOND TO REQUESTS TO EAPAT E-MATL OR PHONE
	"COMPUTER SYSTEM BEING ESTABLISHED FOR EXPMT
	REQUESTS
	- INTELLETRAK USED FOR EQPAT INVENTORY MEANT (VIEWED
	- SPANO ALONE COMPUTER
	- DEMONSTRATED CHECKIN/OUT PROCESS
	- PEARLE MUST BE APPROVED & TRAINED TO CHK-OUT
	SQUIT. (MGR SIGNS OUT EXPLIT WHEN SENT
	FOR CALEB)



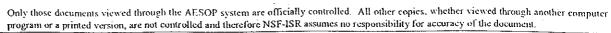
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AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

Organization Name;

Auditor Name:	Ken Clayman Date: 5/21-25/2007
Personnel Inter	rviewed:
In left-hand co	lumn, note the element that was assessed and any secondary element that was assessed.
Element #	IH LAB
4.5.1	- ALL EDPMT HAS BAR CODE I.D. & CALIB. CABELS
4.5.3(0)	- REPORTS CAN BE RUN TO SHOW EDPINT OUT,
4.5.4(8)	CAL DUE HISTORY, etc.
·	- CONOUCT BOTH IN-HOUSE CALIBRATIONS-PERSONAL
	PUMPS, MULTI-GAS METERS
	· CAL STECKERS ON SOME EQPMT - NOT BERSONAL PUMPS
	· RECORDS KEPT FOR ALL CALIB - REV'D
	" Bomp (KS - QUICK CALS FOR ITEMS NEEDED ONICKLY
	· IN-HOUSE - TYPECALLY DO QUELY CALS, OTHER
	EDPHT - PER MER'S REQ'TS
	- IH 5/660 INSTRUMENT CALIBRATION & MAINTENANCE
	PROGRAM (R8, 5/8/07); ATT. 9.2 BNL INSTRU-
	MENT CALIBRATION FREQUENCY PORTCY CY27/07
	"ANNUAL REVIW CONDUCTED TO CONFERM/UPDATE
	FREQUENCY INFO.
·	







Page _ | _ of _ 27

-	
Organization 1	Name: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name	By a a Date: 5/21-25/2007
Personnel Inte	rviewed: EENS Port Sullivan (Ops Mgr)
In left-hand co	Pat Carr (EASO) lumin, note the element that was assessed and any secondary element that was assessed.
Element #	EENS Mtg 845 Am Morning staff mtg. (5/24)
4,4,3	Safety score #'s for DART and Recordables
4.5.1	team discussed that making use of
4.5.3	lessons learned is difficult from
	descriptions given.
4290	Traffic Violations-discussed trends and
4.43	that is shouldn't be an excuse that
	conforcement is more active. if you did it,
	you did it. Zero tolerance.
	Environmental - haz waste Sticker discussion.
4.4.6	Discussed getting students on ESR's.
4.4.7	1H-815 resampling and ether-following
	up on odor experienced yesterday.
4.4.2	EHS Coordinator Mtg coming up - looking for
4	Employee relocation - discussion of transfer - ide
any	Used work permit process to lead discussion
W4.4.6	of moving/lifting. Weighed various poxes
453	of moving/lifting. Weighed various boxes for books/filec, etc. 20# - 40#. (W25-042407
2	JTA - New requirement that all need JTA's.
4.47	Separdy game used for training last week
Toothe	with NN DIVISION. Very effective.
Hem C	Training 150 Th student liason group - mtg





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Organization I	vame: <u>Brookhaven National L</u>	ab (FRS #69525 & 6952	28) – EMS/OSHMS Reasses	sment
Auditor Name	<u> Br</u>	rana	Date: <u>5/2</u>	1-25/2007
Personnel Inte	rviewed: <u>FENS</u>			
In left-hand co	lunin, note the element that was a	ssessed and any seconda	ary element that was assesse	d.
Element #	Emergency Pla	uns are	forwarded	to all
4.47	employees. Mem	10's regard	ing New revi	sum sent
	Bldg 130 (11/29),	475 (11/06)	, 185(5/22).	
	Drills perform Radtec field	ned 6/2°	7/106,7/12/0	6, 111 4 × 2
	Radtec field	station dr	ul for ches	t pain
-	Committee for	updatin	g the emer	gency
	Subject Area	Discussi	on With in	committee
	included mak			
-	Large Table To	p Brill for	injury / NE	xt of kin
	notification.			
·	data about		n may be i	nadequate
	for next of	Kin,	•	
4.5	>		1	
1 - M			shown as	
+ GOVA	action item		ctive action	
SV S			v of the	
100, 100	Area the	result of	a CAR	or previousk
OS WIN	Identified 15	sue!	DOT assessin	nent
V C 00	SUBJUT PURDOE		revamp o	f EM Plans
4.3.1	JKA Cryo (E	ENS-JRA-	704)	
	operation e	of autofill	system -	Oxygen
	Deficiency	Hazara ce	valuation	· Score
	Sevente node	100d SINCO	- 18 60/0 - operation	reduction
This is a confide	ntial document and may be reproduced on	ly with the permission of NSF		Cannol Page 1 of 1
	Cause defic	COLL COLL	,	





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Organization N	lame: Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHM	IS Reassessment
Auditor Name:	Briana	Date: 5/21-25/2007
Personnel Inter	viewed:	
In left-hand col	lumin, note the element that was assessed and any secondary element that w	as assessed.
Element #	JRA (Machine Shop EENS-J	TRA_002)
	revised 3/22 to clarify com	trols
	EENS-JRA-018, 3/21/07.	Added potential
OHSAS	INDVI 12 halicanters	
4.3.1	EENS-JRA-027, Neutron Ge Added, new JRA, work is Con site work has different	enerator 3/16/07
	Added, new IRA, WORK IS	off-site.
	Con site work has different	weather and
·	Other conditions).	
	FRA-490D, 2/1/07 revised	due to
	removing risk altogether.	
	Posting lobby Bldg 197 .	lafest versuon
441	Nuclear proliferation division	
1	- office dweller	
	interview excellent respon	se for
	policy, recycling progra	ims,
	erap awareness and	training
4.2	-PI policy and operationa	O Controls
4.4.5	emergency respone -	excellens
11.10	response Jeopardy C	Jame was
4.4.4	fun	Exclent
4.4.	Interviews: & LEC/AH BMgr	(PIXZ) Excel
H.4.5	Bonne / Admin - gets Safety	into from g
	Monday Memo, committee, Staf	1 MASS. 6000
77L1_2 = 4*1	policy recall Good Knowled	ge of Importance
inis is a confider	ntial dodument and may be reproduced only with the perentssion of NSF-ISRS afety	- WULTCHESS 1001
	Al hor MSKS.	•





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	Organization 1	Name: <u>B</u>	rookhaven Natior	nal Lab (FRS #6952	25 & 69528) – EMS/	OSHMS Reassessment	•
	Auditor Name	:	Briana	a		Date: <u>5/21-25/20</u>	07
	Personnel Inte	rviewed:	EENS) >		·	
	In left-hand co	lumn, note	the element that w	vas assessed and any	y secondary element	that was assessed.	· •
	Element #	Cont	. Bld 1	97 4 4	190A		
		In	terviewe	ed 2 P-	I And	Bldg Mar	
. 1	4.4.7	#	mergenc	y respon	nse I f	Tre / Inju	y/Shelter
		í	ESK PY	væss,	· .		
		Aller	nded 'S	staff mto	1 - good	discussion	n of sakety
		Kovie	W LEF	2 409A	· · · · ·	ev. 11/8/02	· ENV
		Na	live Tal	Ekie /	extra bo	atterns	
		EX	cellent	coordina	ation v	vith rest	Q.J.
		R	huge	bldg.			
·							
		Gen	eval p	rogram	remark		
<u>. 1</u>	4.33	EHE	s coord	+ Ope	S MON E		
215	4.3.4	04	m	line w/	Labrid	e recomm	eadalin
		Safe	ty co	mponen	- to e	very	
• .			nday	Staff	mtg.	O	
	asias	- M	& April	Dept 1	nontaly	focused	on
W	105	lift	mg ar	rd pr	parine	Lovin	rove
	4	, , ,			ر ک	U	
	4.4.6	Wen	IL Der	mut Wr	itten A		
			Hama	boxma	1 pack	ine +	
	2.		un Po	illing.		7	
	4.3.7	CMS	inven		duction	1 Funded	by 82
	' \	AED	Funded	by 52	result	of Drill Cr	itique
						V	1





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Organization l	
Auditor Name	
Personnel Inte	rviewed: Internal Andit and Oversight (11 People)
In left-hand co	olumn, note the element that was assessed and any secondary element that was assessed.
	AA (x 1 -) , AA (4A)
Element #	Mark Israel, Mgr
	2 aspects of operations. Conduct assessments
	for Q, EHS, Conduct of Ops. Verification of
4.4.1	actions taken from previous audits.
4.4.6	Report to BSA / independent of Lab, but
•	line to Sam Aronson.
	RISK prioritization plan for HSE/This
	next fiscal year.
	Proactive review of effectiveness of ISM
	corrective actions.
	Internal Andits of financial audits,
	> Issues from Bldg 400 FRA Address in 0
4.4.6	Worker observations on site or off-site. Her
. N	Controls (ex. WP-552006-167)
M.	- Assessment Plan includes safety
13	
(0)	on JRA-02 for worker observations.
X02 113	PObjectives Targets (\$6-6afely training to
2 11.	Move (2 online and Nicole provided training)
	All JRA's reviewed and nev'd back to op-
	URA's include topics like Walking, worker
$\lceil A \rceil$	observation, office tasks.
	Since new bldg





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Organization N	lame: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	
Personnel Inter	viewed: 1A/O and Diversity Office
In left-hand co	lumn, note the element that was assessed and any secondary element that was assessed.
Element #	Emergency (LEP) training
E	EP, rev 5/9/07, 5/21/07 training
	Porods
4,43	OSH Documents file location list with
	retention time.
1(1)2 -	
4.4.2	Training records - checked 100% Dept for To Backsage
4190	and TIPNOR
4.4.1	R2A2's - current / reviewed in Fy07
<i></i>	
	Diversity Office, Manager/Director
11.47	Ralph R. Bidg representative. Plan for the bidg.
4.7./	Zone 10, Shelter in place and Assembly.
4.4.2	Mty place 98 ft to egress. Symmer intern participated in Emergency training
4.21	Control Contro
- 	issue pending about window in Rose's office.
H.2	Safety starts with you."
14.4.3	14.3.1 >> Doing all Objectives HR FY07





Organization Name: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name: By a 2 Date: 5/21-25/2007
Personnel Interviewed: Information Services Division
In left-hand column, note the element that was assessed and any secondary element that was assessed.
Element # Mary Peterson, Patricia Flood (Lisa Willi)
LEP Blog Myr.
4.4.1 Post EHS Coord. Mtgs and programs briefings.
Comes back to organizations.
4.4. Yearly Training (Division Mtgs) - At least.
Envoy for lab to pass along information
about PZ. Also the quality rep.
4.3. EHS -> Quarterly mtg lead by Pat Williams
No significant aspects. April 25th
4.3.3 FYOT O+T
447 @ Fire Drill. In process to try to get it
Scheduled, LEC has changed Emails 5/22
to new LEC to get ball rolling.
Shelter-in-place drills remembers conducted
2006 (3/24). Assessment by John Searing
I identified a Change for the place. Dritt
) Was a practice for the new gathering place
4.3.1 (2) Review JRA/FRA. E-mail notification
and responses from 5/2/07 and
4/20/07 show evidence of review. No
changes so per level same.





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AUDIT NOTES

Organization N	ame: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	By a n a Date: 5/21-25/2007
Personnel Inter	viewed: Information Technology Division (90)
In left-hand col	lumin, note the element that was assessed and any secondary element that was assessed.
Element #	Many Lynn Heinrich, OSH POC, Blog Mar, ESH, LEC, Recycling. Discussed at the Roles
4.4.1	ESH, LEC, Recycling. Discussed at the
	Koles
4.3.1	Environmental Aspects
	Lead acid battery banks. Monthly quarterly
	telecom empty can machine. Haz
٠.	Waste takes them. Copy room collection
	print cartridges, battery
4.4.3	practice to revisit new people 2-3
4.4.2	weeks after to aid in retention and
	make a personal connection
	> posted water quality data
	water quality Concern Potable water Study.
	Discussion about Community involvement
05H	
4.5.3	FYD7 Objectives and largets
4.3.4	- Identify areas of focus Markup - review BCF (515, 459, \$129) copy
	- review BCF (515, 459, \$129) copy
	sor - printed Tier I nistory FRA-AD-to
	whis - team of N7 to Wall thru

to reduce





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. (Organization Nan	ie: <u>Brookhav</u> e	en National Lab (FRS	#69525 & 6952	<u>8) – EMS/OSHMS F</u>	Reassessment	
	Auditor Name:		Brian	0_	Da	ite: <u>5/21-25/2007</u>	<u>.</u>
•	Personnel Intervie	ewed:	D			¥ ·	
	In left-hand colun	nn, note the element	ent that was assessed	and any seconda	ry element that was a	assessed.	
	Element #	Discussi	ion abou	t car	1 popper	r-Share	
·	4.3.3	with 1	nhysics -	- P2 s	submitta	for this	
	1	year.				<u> </u>	
(A)	(F/u)	weller Lie	Bulled Cla	sestlon	Adul S	eldel les	
Ala Company		thelice	Ae Ae	NOSO .	can pni	per. UM	
		Co		agets	it -		
Sho	1	Emerger	icy Serv	ices.			
$\langle \langle \langle O_{\chi} \rangle \rangle$	/	Evacuat			m B. 5	15.	
	14.47	Conside	end com	Australi	m B.5 ansmori	tiano >	
تحر		001151000	CCC CERT	Carron	<u> </u>	0	
	11.7	David	(Mutich	· CA	nxuler	1ech	
	14.2	Cak	A		solection.	CA () A	
	MIC	Say)	La Vian) — — — — — — — — — — — — — — — — — — —	eran (cas, awar	<u> </u>
	4.4.6	of voc	tage.		H 01/1	and an Alu	
٠	4.9.2	He	Wi ege	upmer	$\frac{\sqrt{-\omega vc}}{2}$	anythe	
		moren	TWOM U	20 un	4 STRY		
		110015,	Niring	·			V.
•		Hardy	vare gr	oup_	mores	homis 21 m	1
			<u> </u>	U			
•			·	·			
				· .			
	4.4.3	Neekly	Staff m	tas. 5	agely to	pus	
•		1e. 7	ia butte r	econt +	onics,		
•					V		
•	· · · · · · · · · · · · · · · · · · ·						



Organization Name:



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AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

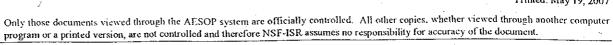
Auditor Name	. <u>B</u>	nana	Date: 5/21-25/2007
Personnel Inte	rviewed:ITD		
	lumn, note the element that was	s assessed and any secondary ele	
Element #	Eric Blum	BCF. Hardwa	re maint interact
	with plant lu	gmeering, pla	rning of expansion
4.2	Safety installa	tion and reg	n, Any mainten nd tooks, hand
	of reguests.	tryo/fall, ha	nd tooks, hand
	drill.	0,13=1	
·			
4.4.7	Resp for Fire	Evacuation.	smoke in area, cut
	power and (all fire depo	smoke in area, cut interest.
4.43	Communical	ion formal +	raining, Mar Com
ļ , , , , ,	from Jim T.,	incident reports	raining, Mgr. com, , Staff mtg monthly
	· ·		_
	Green-shelf P	or special pro	xets
	m	M-	Sapely first, speak out.
4.2	Policy Cr	educe tox	DISCUSSED Community
4.4.1	1 1	port Spills	Sabely first, speak out. DISUSSECT Community
		· .	





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Organization N	lame: <u>Br</u>	ookhaven	National Lab	(FRS #69525 & c	59528) – EMS/OSH	MS Reassessment	
Auditor Name:				ana		_ Date: <u>5/21-25/200</u>	17
Personnel Inter	rviewed:	SD	11	D			
			t that was ass	essed and any sec	ondary element that	was assessed.	
Element #	Nov	28,7	2006	Memo	with M	sponses	to
	Nice	les'	Ergo	ASSESS	ment.	'Order	red
4.4.6	new	51	ep la	dder	Some	Sugges	strons
45.1	the	1 d	idnit	SE a	ccepts b	nt the	ey did
	just	ify	ton	dow	19 lt 1	Use of	
	USPE	the	a tr	sepa	ate v	olumes).	
1309	459	<u>) —</u>	ITD				
	HOYAX	1/KV	1				
	JOS	n F	edevi	Mayn	, system	n admi	unisteractor
4.2	ESS	HP	slicy	8	Coorde	nator.	Mary Lyny
		- W	mKUD	lannin	g - 150	k for	impacts.
	-	- 50	Lette	Dast	der lad	ider, lift	a Assist,
4.4.6		<u>e</u> l	echnic	al pane	ls, slip	s/falls,	wires
		W	atch	for tr	MPS .	, !	
4.4.3		- C	ommi	inicate	w/ Mar	y Lynn:	- labelug
			Sapet	y eque	ment.		()
	1-131d	1 M	ar -	- Jih	J		
	\	1 G0	Then	ng HK-	Maning	room	Kitchen
4.2	Ruth	. M	erker	= 42 ye	ars.	<u> </u>	
4.4.2	Bulle	tw	erker Board	2 42 ye promic	policy	Stateme	w
4.4.4	lif	frue	, evo	promie	mtgs.		in the
W54.3.3	rece	jele)	naui			Deter 1	2001 Phall
4,40	che	Hed	DI	MS de	DY MAIN	N TAO	This. or
				U	$\mathcal{S}^{\mathcal{O}}$	$\mathcal{A}_{\mathcal{L}}$	





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Organization N	lame: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS	Reassessment
Auditor Name:	Brana	Date: 5/21-25/2007
Personnel Inter	viewed:	
In left-hand col	lumn, note the element that was assessed and any secondary element that wa	s assessed 1-captain
Element #	Safeguards and Security - Support Emergency	28-
4.4.1	- Support Emergency	on providing
CUI	trained responders	0
4.4.1	- protective force / first	responder
	- for spill / provide support	5
(E)		
4.4.7	Emergency - Fire / Haz Mat / Am	1bul
	Soill Clean up.	
	Quality Assurance / Rich I	DeRocher
	Take care of Er an Ann	
() (()		
4,4,1	Day 2	
44.3	'EM muster, interviews	
Jany _	PM System. OFI for	feedback
	to Know fall	W/D are Closed
// N	PM Pete - lovely w/o files	
W W		arding frequency
100 11/10	of evacuation a	vills.
1)J(/S	PPM - 00 Haz Com Plan 91	
	Tomorrow PE Refrigeration	AZ
	HE Heavy Egup	Pent Proposition
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	EENS - NAM	





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Organization 1	Name: <u>Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment</u>
Auditor Name	By a n a Date: 5/21-25/2007
Personnel Inte	erviewed: VES SSD
In left-hand co	plumn, note the element that was assessed and any secondary element that was assessed.
Element #	How do you assist LEC prepare LEP's.
	New facility stock recon
4.4.2	verify training for LEC to input to response Ex CEN 3 mone before
	Also Bidg 400
	ICS Incident Command System
4.4.6	
4.4.1	inspections of fire protection systems.
4.41	100 in
	Tramaptain
4.4.2	Dave Peter, ESSH. Compliance, Community,
42	Cont. Improvement
	Dave Raulch, Officer
4.2	Stop Work.
	main gate - traffic, range response.
4.3,1	JRA - all tasks covered by that.
447	I Drills for alarm and response for duess of insecurity alarms.
	insecuity alarms.
3/) Prince
4.4.	Muster mtax 230pm 4 officers
	- Security Plan for Day, annoucements
	- Japity Briefing. Bucket up, assignments.
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Organization Name:		Brookhav	en National I	_ab (FRS #6	59525 <u>& 69528</u>) – EMS/OSI	IMS Reassessm	ient	
Auditor Name:			B_{ν}	iano			Date: <u>5/21-2</u>	:5/2007	
Personnel Interviewed:			1	93 5	55()			** ** *	
in left-hand col								,	
Element #	Veh	ricle	in spec	tion	Sheets	Cap	tain Gilbert flearn	- (Vaca	tron)
45,4	fire	arm	insp	ection:	s, wa	sched -	frearm	check	cm
1	1000		•					*	
4.4.6	Moh	orpopl	HOWY	s" Ve	chicles	and	sets t	he	
	<i>5</i> e	rvice	requ	iremen	な.				
12			•						
4.4.6	Ran	ge u	se/	lead		pa .		1 1 2 1	
,		pre	/post	rang	je ope	ration	n che	chlist	5/20/0
<u> </u>							.)		
	JRA	3/1	Gener	al K	atrol 1	Driving	[]	01/0	
			Gene	wahn	g gur	erales	t in	PH3,	
43.	No	F. y	p 7	or T	review	agai	d in		·
	10	<u> </u>		7		- 5	7-7 70	~	
-	JK	45	refere	ncla	40 6	PU -	307, 20	5, 5/6,	
		1 -			(Out of		+	\	
		(+	112 W	MS	Qual	your	Mon	2)	
4410	Par	1111	Caleta	יובק ע	codure	25 ~	reloust	model	1188
91119	No.	HON/	too	<u> </u>	Gual	hed.	Depro	presu	N
	de	W.	d m	1 de	AMOUNT	intre	S.	J. C.S.	
	1 0		<u> </u>	J	Cf P				
		,							
								-	





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(Organization N	lame: Brookhaven National Lab (FRS #69525 & 69528) — EMS/OSHMS Reassessment
4	Auditor Name:	By a n a pate: 5/21-25/2007
Į	Personnel Inter	viewed: Joe Levesque, Fire House (ES).
		o Arting mar
1	n left-hand co	lumn, note the element that was assessed and any secondary element that was assessed.
ſ		Date to the 1000
	Element #	Development of JRA /FRA
	4.3.1	duties match mission statement. Trefighters
		had input
		FRA. Started with Antocad drawing included
		mundane Office activities
	4.4.6	Physical Training: 1-2 hrs per shift
	1453	Seen reduction
(0	preventint	56 hrs 24 ms / 48 ms off
	YIGU	7 (6 1 3 6)
	14.17	7
	4.4.3	
		- redundant w/ Police morntorma
	1143	Chuck Lasalla Deputy Claref
	И'	What are fue reg too LEP?
	44.4	
	4	111001 1150111001 111000 3050113 3
	N	Shelter in Place - severe weather - voice overtems
		emergency 911 /2222
		3
		Clandy Circu 1 1 - C according
	1147	Steady Siren-Indoor assembly warkling Siren -> ceracuate -> op nome
	4 "	warpling Siren -> evacuare -> op nome
		Fire Alarms - Bldg Specfic.





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Organization Na	ame: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	Bnana Date: 5/21-25/2007
Personnel Interv	viewed: ES
in left-hand col	umn, note the element that was assessed and any secondary element that was assessed.
Element #	About 36 people 24 factighters Safety briefings prior to drills Certified Safety Officers
	safety briefings prior to drills
	Certified Safety Officers
4.4.2.	Sagety briefing - ex. extinguishing training
1253	
1.117	Sagety Stand down for by that -3 days One per Shift. (to Report of topics covered 2005, 2006 Hime)
4.4.4	One per Shift. (to Report of topics covered
*	2005, 2006 (June)
	Fire truck back up alarm - installed in 3 trucks - one more
	3 trucks - one more
4.4.6	Example work permet/ISM for Bldg. 855
	Example work permit/ISM for Bldg. 855 Special project.
4.47	Safety items covered during roll call
ノ	every day - This week good vehicles past
	toputs traffic, builde up,
4.4.3	000 - communication of 188418 for
	next Shift wents, equipment issues
4.4.2	F+O drives toolbox topics, also word of
	Nouth, news, fige fighter website for safety Review it in Roll Call
	Review it in Roll Call



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Page $\boxed{1}$ of $\boxed{27}$

Organization I	Name: <u>Bro</u>	ookhaven National Lab (FRS #69525 & (59528) – EMS/OS	HMS Reassessmem	 -	
Auditor Name:		Bna	ina.		Date: 5/21-25/20	007	
Personnel Inte	rviewed:	4,5		· · ·	en 41		
In left-hand co	olumn, note th	e element that was asses	sed and any sec	ondary element th	at was assessed.		
Element #	Dvill	AMILYNA	Last	Week	3 days	5/11/	07
4.4.7		Level A S	uit, pi	ractice c	decon'		
			<u> </u>			+	
	Train	ing requi	rement	- m	any cers	hhcali	on
	Re	jured!		ending)	
	th/	th level H	omelan	d seco	britig		
		- EMT	·	live p	re train staff gi	mo	next
		- Firefigh	uer	all	staft go	ing	VECK
		- Haz Ma	<u> </u>				·
<u> </u>			\	· · · · · · · · · · · · · · · · · · ·	0 - 0		
4.4.6	Barc	ode - H	Mant) 4	unituly.	100 100	w hisk
	900	$\frac{1}{2}$	thy Who	1 1	nthy fort	right rist	-
	- No	<u> </u>	MI IM	US on	170005		
	1000		A				
	Nom.	Walled en	en do	y :	· .		-
141.1	A	mymante	10000		N/A	+ OA	(Sweln
7.4.1	1457	griments	morai	my [sy par	<u>u -ev</u>	growing
	Gan	y Ridet. F	ivefighte	W J		<u> </u>	
4.4.2	10000	exploration	~ Wal	Kthru	all bldg.	v	
News		BT - FM		en -	J		
Thre			1	<u> </u>			,
,	Ever	ya GAMARAN	thank	入 /			
		11			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·





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Organization Name:	Brookhaven National Lab (FRS #69525 &	69528) - EMS/OSHMS Reassessment
Auditor Name:	Briana	Date: 5/21-25/2007
Personnel Interviewe	d: <u>ES</u>	
In left-hand column,	note the element that was assessed and any sec	condary element that was assessed.
Element # FW	efighter Roll Call	
4.4.3	Engine service, rope i	enot -> more knots, faither
	en and en a	·
	Watch Cycle -2	during night
es	cample of involvemen	t with consmiction
4.5.2	New Blogg - Liscussin	during night t with construction on about credit and
	entry - memory	maxed.
	V	•
G	irea Myer.	Policy < elements
M	uchael thokey (
	/3	
431 Ba	rck/Muscle strains	
	-work but room	-Involvement
	- ergonomie pac	KS
	1	Tbacklog on
Tro	aing.	of 1/4/ Sabety inspection
		L WIO
4.4.6 1	lork Orders S	
	Monthly, Quarte	ly, yearry
	Assignments	given monthly
F	EDS, Valves, exting	uishers, labeling Hazmat,
6	re hazards	, ,
	Any issues, verbal	at end of audit
er si	ubmit to inspection	neport - History Page 1 of 1





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Organization N	ame: <u>Brookhaven</u>	National Lab (FRS #69	9525 & 69528) – E	MS/OSHMS Rea	assessment		
Auditor Name:		Brana ES/F	/	A	5/21-25/2007		
Personnel Inter	viewed:	ES/F	+0/	AND	PPM-P	DIVISION	
In left-hand col	umm, note the element	that was assessed and	any secondary eler	nent that was ass	sessed W TI	diest 1/a.	
Element #	rete Pa	<u>lamidis</u>	:, PM	Pete	4 \	NO HU	
4.4.4	Fire Gro	up ORE	lede ab	out 90	o pm	\$ 90	
	40 E	M' Eme	ngency	Services	<u> </u>		
	117 ope	en right	now		· · · · · · · · · · · · · · · · · · ·		
		J	·				
	DISCUSSION	g Bal	Klog.	· · · · · · · · · · · · · · · · · · ·	·	- h	-
	5 \$ Bld	as in 1	Maximo	Show	Open. h	ron Mar	L
	4 of H	use ho	we ge	ridenc	e in		
-	Bo	incode	(ongulo	h tha	it ing	pection	כ
	I mis	are perso	$\frac{1}{2}$				
	,,,,,	SECY DIAM					
4.2	DPMD	Geo	ral>		Mon	thly	
4.4.8	(100 - 11 (0	Kor	10/	+ . 1	Suf - co	noutle	
9/1.5·1	Supect So	raf metal	quasan	Wed .	-Ter	1	
Js 2010	receving.	Ela Chay	Agrana (Y	CEIVIN	Ex. 4	Flammalle	
The Bri	packine	ust *	log ant	o syst	en. C	$\Delta \Delta \Omega O = -1$	
The John	Comes	TO IN I	V .	(Danta VII		ollow mps	
W (AII)	LICHULUCO	MUMA O H	0/ 01	entory	Ž 101		I
This is a confider	A VUV > UV And may be a	eproduced only with the per			:	Page 1 of 1	_



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Organization N	lame: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	
Personnel Inter	viewed: ES
In left-hand col	lumn, note the element that was assessed and any secondary element that was assessed.
Element #	John Searing
4,4,7	Emergency Preparaness DOE 151C
	Emergency Prepardness DOE 151C Flows to Subject Area 18 sections.
	Ties into OHSAS/EMC
	Drills, target to
	Major petroleum spill d'ill seheduled.
_	Annual Site exercise
	- upcoming work drove likely sceneno's.
	transportation over turned truck:
	Allowed it to play out 3 hrs. / off-
ين	* site nonfications.
-	- post injury - leg injury / Contract mymt
	1 CFN -> construction - ownall FRA
V	/
	FO. Integrated program.
	Safeguards and Security-





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Organization Name:	Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment
Auditor Name:	Bnana Date: 5/21-25/2007
Personnel Interviewed:	By Perfeng. FHO and PPM
In left-hand column, no	the the element that was assessed and any secondary element that was assessed.
Element # BW	rode 135997, 135999 + (23 total)
4.4.5	1,M E50804 Jugs
lazag In 6	
\ St0	10ge - Bldg 525 (TR525)
11115	Standard Static revolving
4.4.5	Inventory posting CMS
	32X/Bal Ulime-A-Way
1	ly Committee monthly 5/10/07, review FATS
Sop	Ly Committee monthly 5/10/07, PEVIEW FATS
4.45	2 Con Progress 12/19/9/-> removed
100	and 1990 Guide look for laping
	Chemical containers.
e	Vry Quigley, Property specialist
	Name of the same o
-	Computers, send to unicore
	- Scrap metal, small amt of teamon - monitors - education pool
	Mondovs
	- laudlion pool
6/2	ell recycle, scrap metal goes thru
	larry
	Bill Driver >





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Organization N	ame: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	
Personnel Inter	$\{(a, b, c, b)\}$
in left-hand co	lumn, note the element that was assessed and any secondary element that was assessed.
The fore manual co	initing note the element that was-assessed and any secondary element that was assessed.
Element#	Joe Craptsman and Joe
·	- WIO or PM VISIT location and
4.5.	determine it has recharge, and
EMS	SCALE- Not on CAL schedule but Plane Bar Codo
	Brookhaven Ted Crib B120, 452 (158mg)
	Asset taa A018784 9 PPM tag)
443	Toolbox Mtg
4.2	Policy (3 Interview) - good recoult
	I fluid recovery
4.4.6	Separation of wastes 1,15
	and librications
	Damage to environment No en My
	- 07 one depletion P. W. A
	Discuss recovery.
4.4.3	Pat Browne, CFC regulations : ERA Certific
4.2	John - ventied EPA Certificate)
4.4.6	Inventory Control. Requesty
	- Dink request BNLF 1/34/4 (old form 3)
	- Formal inventory Sheet filled OR
	and valged in 109 book





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Organization N	lame: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	Date: 5/21-25/2007
Personnel Inter	viewed: Retria F+O / EP Date: 5/21-25/2007
	lumn, note the element that was assessed and any secondary element that was assessed.
in tert-nand con	tumir, note the element that was assessed and any secondary element diat was assessed.
Element #	Safety Glove six months red / yellow.
	Electrical Gazetty
4,51	Job Site inspection.
	1
4.4.3	Sabety Meeting Minutes posted 4/9/07
	Serveral Sayolya EMS topics
	moliding waste wall treatment,
	DITO, Timber reviewed, Supety
	Opening PRE.
Fhu	assummen of TRA/FRA updating->
4.31	
1.1.1.1.	Refragerant inventority plan
4,419	requires abtacy one monte formal monter formal
	inventory and los of inventory
	(ventred por)
4.5.4	Form for EPA Rocovery, records.
record	SNEG., Summary of regs
	All techs trained on plan, 1/21/05
THAT .	Keview Schedule for Plan ! (Subject Hola?)
٦ (yes. Doc control rev 9/30/05





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Organization N	lame: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	Date: 5/21-25/2007
Personnel Inter	
In left-hand co	lumn, note the element that was assessed and any secondary element that was assessed.
Element #	AC/Mantenance Department
	Refrigerant recovery and feuse
4.4.4	
4,4,1	recover oils, scrap thetal dempster oil, trested and puned of Steams
	plant.
; [;]	4.
	Insernet - procedure. "PM" PM Pete" refing guru. report and scheduled follow up for
	report and scheduled dollow up for
	repairs.
4.4.5	Refrigerant Management Plan 1ev 1 9/30/05 Jeff Williams, SME for Non-rad air
	Jeff Williams, SME for won-rad air
	LMISSIONS.
4.4.2	Today. 10-2 training
	1/21/06
4.4.4	ex. WO: EP166736 Follow up check to EP160135 3/30/06 recharge fix leak
0	EP160135 3/30/04 recharge fix leak
4,5,4	
	Refrig. Storage Culenders and eguipment
446/	each man was Brale Hank recovery
\	machine
	Joe John - chapte
	· =





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Organization N	ame: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	By a n 9 Date: 5/21-25/2007
Personnel Inter	
In left-hand col	umin, note the element that was assessed and any secondary element that was assessed.
Element #	Heavy Equipment Wechanic Operations
	TOON O
4.4.3	PPE requirements
4.3.1	MSDS Book - getting revaryed (IH) 400
4.4.6	
4.4.5	State revolving 11st 2/27/07 (cms)
	145720 9/5/06
4.4.6	Ell waste Straw - proper disposal.
16 / 0 /	NOTES COM IN CAMADA Brode
4.4.6	HEROST CAN VECTIVELY PURCEY
	Herosol can vecovey Binder Log Shows entres for 05-07
	be storage Anga Drums on containent
	bil storage thea Drums on containent
16	WU XX OU
4.3.3	P2 System 1 Dants cleaner (No. Salety Clea
	le Charges mureaal sourts
	Endy have to add a pew gallon
4.5.2	per year. Closed
EU	TRANSON DE STORE CATOL CA 1156
	JAT DY-HUNDO 5/8/07
4.4.2	Training veg. improvements improvement





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Organization Na	me: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	Briana Date: 5/21-25/2007
Personnel Interv	
In left-hand colu	imm, note the element that was assessed and any secondary element that was assessed.
Element #	Procedure por refreleno o trudes
4.4.6	Jane Santo
	2 5000 gal fauto
	110,000 gal tanks () Goiss 101
	the transfer of the second of
	Tank I > Metus w gullons it is at
	Talle 2
	Tonsito myrok
	Alabara Martines
	Notices that ank Meler was off
11.5.3	good concept preventive action
٩	TAIDIDI CALOCHOO CALOU Peter to la mode
4.4.9	Will prior to pumping to swift the
	Rindikel Ollat with 1800 000 the
	look at performence BZO 1 B5 cold
	do year- goal to replace
	La Dia Lucha Vit
	the of tanks will a
	Carrella catellate boilers - users bicdiesel
	Vea. Al & when possible.
4.5.1	Tank Cets - Inspections yearly
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	Organization N	Name: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment	
	Auditor Name:	By ana Date: 5/21-25/2007	·
	Personnel Inter	rviewed: F+O Motor pool SS.	
	In left-hand co	olumn, note the element that was assessed and any secondary element that was assessed.	А
	Element #	Hank Peter Pohlot Spi	
-		Rich Allingham Beager; P2 Init	rateve
• .		do: 40.	
·	4.4.7	Fire extingustier 0/1630 Barcodes	\
· .		015981	
	extco	m	
	4.4.3	P2 Suffolk Cty got advice from the	un
		der PZ	
•	, ,	Retermed Oil - bulk shipment	•
		The governor	
	15/	Discussion of Aydraulic 11945, 114	es_
λ	A STORY	Were und roof, retropt seals	·
Less C	To My	4 Converted to Biobased Mydrauliu	. 12
Ser of the series of the serie	12 4	101300 - Rupturo of the - Brobased (Km.
S/X	Pilat	lette his year again.	h C
V		Millow of to Mark to the will there to be	J.E
		Altempt to But into rest years budge	Jest-
	RWA	JRA/FRA Pader Word them.	
•		moher visite after indiment weather	\sim
	1	Tow Truck opedior	Page 1 of 1
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Organization N	Name:	Brookhaven Nat	ional Lab (FRS #	<u> 69525 & 69528) -</u>	- EMS/OSHM	S Keassessment	
Auditor Name:	:		Gordon			Date: 5/21-25/2007	
Personnel Inter	rviewed: _		tephon,	Ferrone	John	Peters -	
In left-hand co	olumn, not	e the element tha	it was assessed ar	nd any secondary o	lement that w	as assessed.	e e e e e e e e e e e e e e e e e e e
Element #	I	ut rodu	ectro	to BN			<i>1,</i>
	Pert	or movaec	Eugla	en por 8	Mele	sure mast M	44
						usted to	
4.39				les hus	ise do	UP IN GARO	Pricha
·		eva	luation	A PEM	P, asp	refs + Mazard	Fresk
4,3.1	A5	peds	reviewe	l'annu	rely		
4.5.5/4		V) 4 / /		each of	le l		<u>:</u>
. / .		1					
	11/1	ight cel	objeci	1,008			
44.9	3	/				_	
-	Co	ntract	er co	mnceni	cation	&control	
4.46	JJK	IA .					
	Wor	K Peru	16/-				
	EX	RIIMan	lal		s	· ·	
	FY	RA		· ·			
	S	teenclar	d wil	Lh site	Speci	tic adjusts	yal)
-7		review	ed ev	en Have	p 1/4	rus, Bruen	1 Vear
				7 '	Y		
					-		





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Organization Name:	Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment
Auditor Name:	Gordon Date: 5/21-25/2007
Personnel Interviewed:	Beth Schwaner Training Manager Tyens
	ote the element that was assessed and any secondary element that was assessed.
Element#	JA Ascoti Fred Han
442/4.42	BTMS Brookhaven Truining Management System EMEP 11) required every 30 ms
	EM El 11) required every 30 ms
	LINE Supervisor
	A
7	TTA assigned + reviewed
	annually
4,4,1	Transfer of the American
7	Training Coordinators for cach
	OLIVELIO WIT
4.53 4.54 1	raining records and needs assessment
1400	Turk
BI	NL
N	^ / _
44.2446	Resident Contractors training
	Resident Contractors training
	A
To the second	ERP Westorie Keroves





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rganization Name:	Brookhaven National Lab (FRS #69525 & 6	9528) – EMS/OSHMS Reassessment
auditor Name:	Gordon	Date: 5/21-25/2007
ersonnel Interviewe	ed:	and the second s
n left-hand column	note the element that was assessed and any seco	andary element that was assessed
r iert-mand column,	note the cicinent that was assessed and any seed	muary demone that was assessed.
Element #		
4.4.2 0	EVAIGOU MONGS SEVENAD MISSI	ERPLONTONDO Contractor us from 14130/06
45.3/454	SEVEVAD MISSI	ns from m
	ey. Full Prot	ection 9/30/06
	7 7 2 0	
	Thomas & byle	
	JOIL CUST TOU	del 3/25/07
	Rodingiti-Mh	1/5 Cres 3/18
	HII ZINONIA	2/11/101
	The Everyor	
	Life 501 ences 6	Directoraly
	The Wie Mass	covelly Ofur
	- 1° (Co) 1° (C)	a min of the
	11/1/2	N to
	Joan Lava	UK4\
	Dial DC 11-1	3
	RICHARD SALY KUI	13 Olcely
		1000
	LVITEVIA TOV CLETCI	mining job gacolifical
	Dequiremons -	- guides +101414g
	V	
		·





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Organization Name:	Brookhaven National Lab (FRS #695	25 & 69528) – EMS/OSHMS Reass	essment
Auditor Name:	Gordon	Date: <u>5</u>	/21-25/2007
	An Envice Steps	la Bob Cal	10410
4	ote the element that was assessed and ar		sed.
Element # L1	Sc Sciences Dire	extorate	
Me	ilecal > Brown		
4.4/6	Experimental	Satety Process	
4.83			
7/ 151	Objectivo 20	ro non confor,	MONICS
45.1 I	A total on 3 V	ear riele.	
4.5.5	and its conduit	ear cycle	•
	- 1000 / - 50 0000	0 100 1	
To be	souns leavined	Positoraci	
A			
A FI	ant engineers	as 1	
45.2 10/	COUNTENCO REPOR	A CA BHOD	-RNI- DAVI-RUI
" 45 C		Icelvicity Open &	129/06-9/29/06
POSA	Lessons hearned	NJ-2107-01	> Info on
4,43,24	.5.3	MO-2005-01	incident shared
- P	Critique Sum	Mary	throughout lab
	U		+ DOR
4,7,3	Good turgete	/	
1	C. let	ta wallen Mark	·





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Organization Name: Brookle	naven National Lab (FRS #69525	<u>& 69528) – EMS/OSHMS</u>	Reassessment
Auditor Name:	Gordon		Date: 5/21-25/2007
Personnel Interviewed:	Lite Sciences	Directorale	Continu
In left-hand column, note the el-	ement that was assessed and any s	secondary element that wa	s assessed.
Element # Aspects			
9.3.3 LS-	EMSA ROD 16	6 12/28/0	
4,4.4 E	MS Manage;	ment System	
() X	ife Science OST,	HAS 18001	Ker 1 10/6/2006
4.3.7 As Dec	cts reviewed	a so hare Mi	
Two views	13 TPUTEUTY	an nucley	0.0
43 Biors	1 Tunter	Yorg Sci	ruenda Tosquak
213.1 Thon	ruc brend dos		outof
414.1			
4.4.2 8/6	Sautulis B	log Mgr I	EC, Greenhouse
40.5	_		
414 FME	vgency - S	its wide	system that
X / Hu	ex ex participa	att in	//
12/	In facility #	Experied of	results
914 BNZ	Tive/Kescar	Group HS	2482 1/13/00
WC	1-89195	7	1 0
4.4 \$	Nonkadicact	ne Waste le	ntrol torn
Ao los	No Coes to	866	ep Palumbo
100 1	ecaves 5/23/07 (Man of Work ever	VENUS > 40 days
9 Haz	Waste Agent	mustin fra	Weekery
I In	spection Check	alist for 7 h	ionly all god
M	red waste	1/19-5/1	4 oku
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parce	ndes file original.	o copy to stay	System If for disposed manyone





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Organization Na	me: Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment
Auditor Name:	Gordon Date: 5/21-25/2007
Personnel Interv	riewed: RICH Ferrieri - Superussio Ops PF.T.
In left-hand colu	imn, note the element that was assessed and any secondary element that was assessed.
Element #	Lite Sqiences Directoral
	Nuleur & Radio Chem Summer School
	Controls inplace > Notad Not quelited School is not in
-	School is not in
	Medical Depart Session
4.6	MR 9/25/05
4,2	Michiko Miura Chemist 204090 What a JRAWRS
43.1	Wysnit Sure what a JRAWRS
4,3.3	
4141	Hoz waste 1 run 5/2/19 - Okay for 90 da
44.2	
4145	90 lay Myed Wast - 42/02 - 5/18/07
U. U.	17en 1/9/01 -5/18/07
447	
	Bah Colicato
	Jorg Schwender Ag Supro UISOV
	Janchin Lynner Ag Suprovisor





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Organization	n Name: Brookhaven National Lab (FRS #69525 & 6	9528) EMS/OSHMS Reassessment
Auditor Nar	O 1	Date: <u>5/21-25/2007</u>
Personnel Ir	iterviewed:	
In left-hand	column, note the element that was assessed and any seco	indary element that was assessed.
Element #	Life Sciences D	11 Pl tovate Finis!
45.4	GSDA FRANT 3/12/07	Robert Solvey. Navid Skipper
14.		parers selvey, yand Jayper
	Micole Bru hole	
	My audit 3chedu	16 - in
	audit schodu	79 . [4
	Luckas SUA	7 Selfassess malpkin
	Life Sciences FYO	1)e/1 4530 35 man por
	ERAP Directoral	te (Environmental Restord
	Brue Loin Ivai	0.814 6)
	Drian It chevele	CM & En Carlo
	Keith Klaus	EMS & ENU Complianc
	UDE MUNTALI	O QC
11.1		1 M for fortal
H.6	Manufement Review	Minutes 9/21/06
*	fol(cy	(
" (1	Mano Poto 461	/2)
swevs 4.41		Do Bale & Brown
July Ofla	work Instruction	Access the Below Ground
	DUCTS TO UDIALL	1 1504/11/WW COURSONAIRE
396W	EKT-JR# - 39111-	7/1/2
	Berylium Sampling Plan	6/21/01 >1/4/01
	fidential document and may be reproduced only with the permission of	TNSF-ISR. O Page 1 of 1
15/2/01	Bob Selvey sign aff o	n Equivalence
, , 1	DAR MD	9/24/06





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Organization Name:	Brookhaven National Lab (FRS #69525 & 69528	8) – EMS/OSHMS Reassessment
Auditor Name:	Gordon	Date: <u>5/21-25/2007</u>
Personnel Interviewed	l:	
In left-hand column, r	note the element that was assessed and any secondar	ry element that was assessed.
Element #	P-TAD-75505	5/14/02
4.57/38 E	ERP Corrective Action	m Pregresse &
/4.	Conditioning K.	eportile Systen
	ERP OPM-2	2 Rau 1 2/01/07
A75511	He Kook Cayse OFF	= 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Condition Keport E	KN-01-33
	es Hill	A
POS 3	Emplementing STOR	Drogram Variation 4/30/8
2 2	4.7 Safety Obser	vations ERP-18M 4.7 Wa
B_{i}	Puce Training LEC	<i>n</i> -
\		
4.4.7 5	REAR Loral E	Emergency Mun
	EP .	
XX	No evaruation of	Vills - part of
	Site L Site Hus	a does not melade
		•
	Wans for unious di	rells as cleanup pricess
	will result in Me	
	access + 19195	Ç- Ş
43.30	HS PY 2007 116	rectives Thurs
	4/2/07	,
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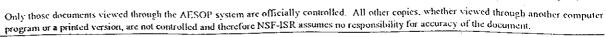
Organization Name:	Brookhaven National Lab (FRS #69525 &	& 69528) – EMS/OSHMS Reassessment
Auditor Name:	Gordon	Date: 5/21-25/2007
Personnel Interviewed	:	Section 2
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Organization Name:	Brookhaven National Lab (FRS #69525 &	69528) – EMS/OSHMS Reassessment
Auditor Name:	Gordon	Date: <u>5/21-25/2007</u>
Personnel Interviewed		Secret 1
In left-hand column, n	ote the element that was assessed and any sec	condary element that was assessed.
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Page / of /

Organization Name:	Brookhaven National Lab	(FRS #69525 & 69:	528) – EMS/OS	HMS Reassessmen	(
Auditor Name:	Gora	don		Date: <u>5/21-25/2</u>	2007
Personnel Interviewed	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
In left-hand column, n	ote the element that was ass	essed and any secon	dary element that	at was assessed.	
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AUDIT NOTES

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Organization Name:	Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	Gordon Date: 5/21-25/2007
Personnel Interviewed:	
In left-hand column, n	ote the element that was assessed and any secondary element that was assessed.
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	Robert Di Nardo
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Organization Name: <u>Brookhaven</u>	National Lab (FRS #69525 & 69528) –	EMS/OSHMS Reassessment	<u> </u>
Auditor Name:	Gordon	Date: 5/21-25/2007	
Personnel Interviewed:	strumatation	DIVISIA	
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AUDIT NOTES

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Organization Name: <u>Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHN</u>	MS Reassessment
Auditor Name: Goydan	Date: 5/21-25/2007
Personnel Interviewed: Finance Directorale	
In left-hand column, note the element that was assessed and any secondary element that v	was assessed.
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4.3.3	
441 Fred Denjanin Hect	
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4.7	
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Organization Name:	Brookhaven National Lab (FRS #69525 & 6952	28) – EMS/OSHMS Reassessment
Auditor Name:	Gordon	Date: 5/21-25/2007
Personnel Interview	ed:	
In left-hand column	, note the element that was assessed and any second	ary element that was assessed.
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	Occupational Hea	lf Division
	Terry Mauberi	Senior Administrator
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AUDIT NOTES

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Organization Na	nme: Brookhaven National Lab (FRS #69525 & 695)	28) – EMS/OSHMS Reassessment
Auditor Name:	Gordon	Date: <u>5/21-25/2007</u>
Personnel Interv	riewed:	i was to the second of the sec
In left-hand col	umn, note the element that was assessed and any second	ary element that was assessed.
Element#	PAR/DA/L	
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4.4.3	Chair of Safety Comp	
4,4.5	been in project	
4.41	10 11	
4,4,7	HROM Safety Meet	us Minutes 4/31/2007
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	Liz Gilbert	

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Page 1 of 1

NOS - Manygement very responsive to Safety Committee





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Organization Nat	me: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
Auditor Name:	Gordon Date: 5/21-25/2007
Personnel Intervi	icwed: Mike Fury Doug Ports
•	mn, note the element that was assessed and any secondary element that was assessed.
Element #	Intellectual Property + Sponsored Research Planning
4.4.6	NF-07-16 Information Questionaire fisher
	Memo & NBPA 4/10/07 from Partury Memo from Davis 4/15/07
Y	Mene from Davis 4/15/07
4.3,3	Objectives + Target; 5/12/07
4.4.4	Relocation Plans & Safety Visions 8/8/07
415.1	Work Space Inspection 5/21/07
4.4.6	JRA - O Hick Work 10/3/166
1	Facility Use Agreement Blog 185 June 2007 FUA - 185-2000-04-1
45.1	Building 460 ESOH Inspection Deficiency Log 5/211
Noteu	orly - More planning because of
P2 /	2 Dougla Dott 17248 Michael Fury 18612 Hial document and may be reproduced only with the permission of NSF-ISR. Page 1 of 1





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Organization Na	ame: Brookhaven National Lab (FRS #69525 & 695	28) – EMS/OSHMS Reassessment
Auditor Name:	Gordon	Date: 5/21-25/2007
Personnel Interv	viewed:	Service Control of the Control of th
In left-hand colu	unin, note the element that was assessed and any second	ary element that was assessed.
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Organization Name:



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AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

•	Auditor Name:	Davon Henderhalt Date: 5/21-25/2007
	Personnel Inter	viewed: Debbié Steve John
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1 200	4.3.1	(T)work permit (task) + Dasperimental (review).
1.3.2	PEMP)	Performance Evaluation Messevenest Plan
1	Plu-	7 Applicabilities of PEMP to Directorate
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	Fla	4.4.3 - ROD from State regarding CAP ingrestion
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	4,3.2	EMS-John Selva - Env.
		OHS - Bob Selvey - Man. Iit
•		-SPDES permet
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Page 2_ of 4

	Organization N Auditor Name:				lenderh	17 -	MS/OSHMS Reass Date: 5	/21-25/2007	
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Organization Name:



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AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

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Organization Name	
Auditor Name:	Davon-Henderhalt Date: 5/21-25/2007
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In left-hand column	note the element that was assessed and any secondary element that was assessed.
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Day 2 of gram AUDIT NOTES Page 1 of 6
Organization Name: Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment Auditor Name: Date: 5/21-25/2007
Personnel Interviewed: CBGPA Comm. Bducation, Govt. Public Affairs L marge Lynch In left-hand column, note the element that was assessed and any secondary element that was assessed.
Element #
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Organization Name:



AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

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Auditor Name: Personnel Interviewed: In left-hand column, note the element that was assessed and any secondary element that was assessed. Element #





Organization Name:



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AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

Auditor Name	Davon Henderhaht	Date: 5/21-25/2007
Personnel Inter	rviewed: Marge Jean	<u> </u>
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	Monday Mond - PGA Salety Committee -	





Organization Name:



AUDIT NOTES

Brookhaven National Lab (FRS #69525 & 69528) - EMS/OSHMS Reassessment

Page 4 of 6

Personnel Interviewed: Margo, Fred Jeane Debaie In lest-hand column, note the element that was assessed and any secondary element that was assessed. Element # Margo — Community Relations Y.Y.3 Ext. Comm example — Tours — Ribbon Ceithin Nano — science demonstrated — HIVE Incident Assessment Plan — employee no devision Comm Advisory Council Regulators Curi organiz DOE / Brookhaven Comm Advisory Council Mario — Sundary Felosi Exec. Round Table Gur. Anniveran — u. Clean up to Peconic Riv ii. Wells Imaniformy; HI- flux Bean Reactor TO 14 + 5 Q A NEPT — Regulator — Summer intern — orentation, safety bike Safety — JRA	Auditor Name:	Davon Henderhalt Date: 5/21-25/2007
Element # Marge Jeanne Community, Relations 4.4.3 Ext. Comm exangle—Tours—Ribbon Cuffing Nano-science demonstrated— The Incident Assessment Plan— employee modvement— Regulators Cinc Graniz: LAB responsible Rich Stockhaven Comm. Advisory Council Aniwarany— ii. clean up & Recome Rich ii. Wells Imaniforing; Hi-Plux Beam Reactor TOURS I Manual - Summer intern—or entation, Safety	Personnel Inter	viewed: Marco, Fred Teane Debbie
Flement # Marge Jeanne - Community Relations 4.4.3 Ext. Comm example - Tours - Ribbon Cutting Nano-science demonstrated - Freident Assessment Plan - employee involvement - Regulators Cinc organiz - Regulators Cinc organiz - Responsible Part - July Stockhaven Comm Advisor Council Sand - July Stockhaven Comm Advisor Council Chr. Annuarans - ii. clean up to Peconic Rive cinc wells I monitaring; Hi-flux Bean Reactor 7 6 14 × 5 Q NBPT - * Students - Summer intern on entation, safety		
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Regulators Civic organiz: - LAB responsible South Servockhaven Comm. Advisory Council Sant Ser Statefall Exec. Round Table. - Gur. Annwarang - ú Clean up & Peconic Rue - in-Wells Imaniformy; HI- flux Beam Reactor - 7014 50 - NEPT - - R. Students - Summer intern - orientation, Safety	TIV	
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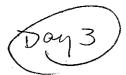
Delothed 2006 Annual Report Bob Lee (Day 5 & 6 CEGPA - Verbal-signage for eye protects OFT - Safety Procedure for id of legal + other to define freq. of review + ROD process. 5-teve Krane (/2) OFT - CEGPA JRA For PG Cuffer was revised as result of an incident new gos control added but risk rating did not change. Document Havidence of change (espic. if doesn't reduce risk) and to sho ps 5 50 justs, sull BOP review - in event other risk thanged cross 3) OFI - JRAtreference/ linkage to SBMS OPS control for emplagee knowledge of legal Follow UPS - (... OFI - JRA Sout controls) 1) mon - Aspects 1d. that are not sign. yes - addressed through PAF-Perf. Assess form

Sofety Review (noted as an X) Thes- Doe Control of ext. generated does-ANSI /ASTM/CGA - STH Cibrary Diracking of end. communications 2) Integration (consolidation of Tier I 3) Incident Action Plan for Rubbson Cutting of the into BBMS 4) New Bld. Fring, conducted. Is there a deadline for Soft SOP's to be 30%

Dough 686 5HSD For SHSD inst is 0/7 bec. Huz all billions to SILIE PEM PS

Owners
Sor OSH SITE OSH Obj. 0/1 - 4 LyTrack in Self-1- 2 Records met essessment plans i - veg mgt. completing 3 - Improvement of actions assigned in ATS 4-0-4/26/07. JRA-345D-018406 830+801 757 7-6/30/07out - (not being used) 45 so contests DOF 0 151.1 5dur 4.4.7 2 - searing XCX-7 ASSISSMENT ... Wout Controls.



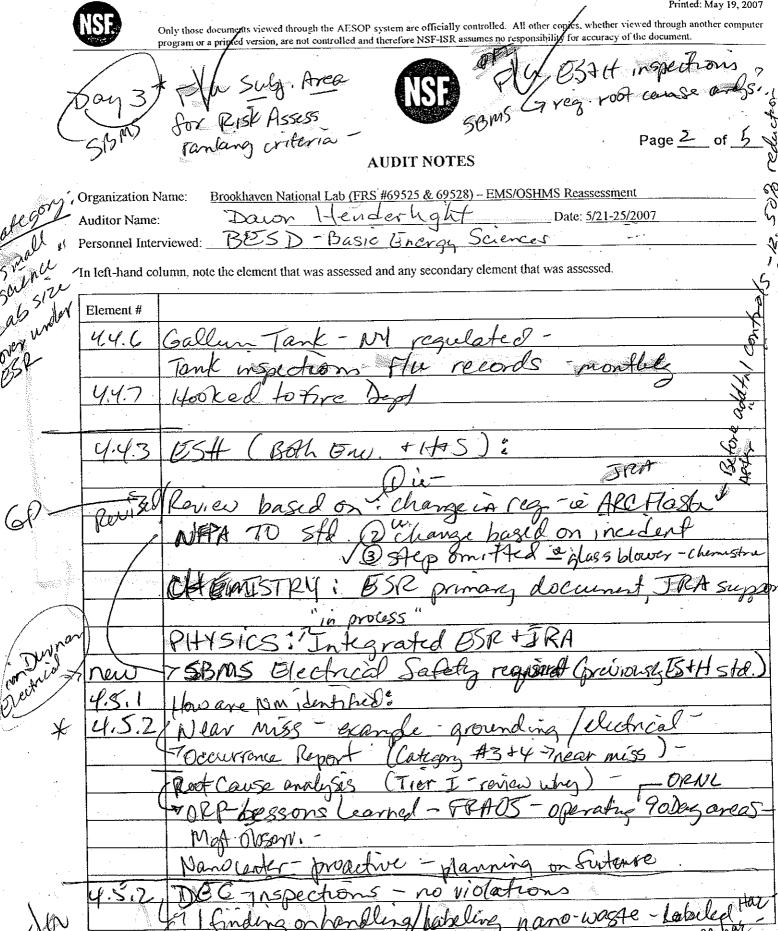




Page ____ of ____

	Organization Na	ame:	Brookhaven I	, ,			– EM3/03				
	Auditor Name:		Davi			hght			1-25/2007		
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Q. U. J. Crystal metals-Q. U. J. Acid Etching - avoid Sawar-S) waste collection in hood. 3) do not use powder.

4.4.6 T PPB - chemical & test 4.4.6 V Torch - goggles - eyes.

4 85 Sold of the sold o Rags (industrial waste) Kags (industrial waste), many chemicals, Universal, waste batteries release. SCDHS Article 12 - Source storage tubes. Part of BNL site-wide Title V CAA permit (labhood-Page: 1 of (3 Date: 2/1/2007 All aspects do not correlate to each experiment. Specific aspects associated with each experiment are identified in the ESR database. Specific aspects associated with each experiment Department's ESR specific aspect spreadsheet. All aspects do not correlate to each experiment Rad air emission decayed in storage prior to Day 3 are identified in the ESRs and on the CO is post of the proved by. Signature on Enchemical Signageta area_Ca tanks in 555 basement Comments Environmental Aspects," put an "X" in the cell. If the aspect meets one or more of the significance criteria listed in the exhibit, enter the letter designation for the applicable criteria in the cell. 111110 Note: If the aspect is not present, leave the cell blank. If the aspect is present but does not meet the significance criteria listed in the exhibit, "Criteria for Significant None Reviewed by: D. Bauer R. Sabatini D. Cabelli (500 Signer Requirements Other Compliance > Organis/Inorganies/alids/basis-4.4.0 Soil Activation Trytanies, Arme moordebungh-usjons/students must part upote in work plansing - usjons/students must Contamination Historical Env. Noise Species and Sensitive Sensitive/Endangered W Basic, Energy Sciences Directorate

★ >○ Ut Boov EMS Aspects Matrix Historical Monuments Water Consumption Slorage/Use Radioactive Materials a,e,f Chemical Storage/Use à, ö Liquid Discharges Ω Ω Ω × ۵ Waste Regulated Medical SOF) Soft accur and * σ Hazardous Waste Process Assessment Form ID or other organization reference number ø Regulated Industrial Ø Ø a > æ æ 139 <u>a</u> 206 599 212 Various Number 2) Hood - on Small Scale Glassware Cleaning Operations Vacuum System Maintenance Chemical Storfige Stockroom, Bidg 555 N Water Distillation, Bidg 555 Glass Shop, Bidg 555 Glassware Cleaning Rooms Bldg 555 Staff Shops, Bldg 555 Site-wide disposition (legacy) Issues ACTIVITY DESCRIPTION Metallurgy Laboratory
Photography Developing Operation
Staff Shop Chemistry Department Title Material Sciences Experimental Research Projects Experimental Research Projects Staff Shops, Bldg B. E

themistry Rolly Day 5085 What Prevention Report 4.4.7 Storag & Handlig 8 Bulk Chrucals for CBS Faulder 4.5.4 (5 m - 71 27 04 Diches copy Jank # 555-01 Golling Trudy 4.5.7 yr. inspedior records - State check 4.5.4 Checklist - AST inspections 4.5.4 Upglon - visual -4.4.3 Coveen Boards / melassia - COR certif. M. J. P. H. D. Ladder, electrical orgogen, compressed Jas for experiment High viltage (no name detected) 4.4.67 Price CO1-2 ESR Rutus to 35RMS + 3 FRMS 4.4.27 Laser Saletz (goggles) 4.4.2 & Working Alone polices General Safety practices







Page ____ of ____

AUDIT NOTES

Organization Name:	Brookhaven Natio	nal Lab (FRS #69525 & 69528) – F	EMS/OSHMS Reassessment	
Auditor Name:	Dawn	Henderhaht	Date: 5/21-25/2007	
Personnel Interviewed:	NSLS -	M. Synchrotron	light sources.	·

In left-hand column, note the element that was assessed and any secondary element that was assessed.

_		
A	Element #	Bolo Light Source I
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		Andrew
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		564: waste chemical Avorage lig. descharg
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	4.3.1	38 JUA'S RERA'S - La worker qualification twork planning ESIL Troprovement committee
		Ly worker qualification twork planning
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ا، ر		
1.3.9	*/	Light Source 2' - new program: 7 DHSUS 1EMS in place by end of year
*.		7 OHSUS 18MS in place by end of year
		Boly-Met-Rep.
		1) NEPA Study complete 2) Reviewed w) NY DEC + Suffolk Uty
	1	PRM 13,6 - Work Planning + Control (SBMS)
	V .	10 10 10 10 10 10 10 10 10 10 10 10 10 1

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LS: em5-002







Page <u>2</u> of <u>5</u>

AUDIT NOTES

Organization Name:	Brookhaven Nation	al Lab (FRS # <u>69525 & 69528) – EMS</u>	OSHMS Reassessment	
Auditor Name:	Dawn	Henderhalt	Date: 5/21-25/2007	
Personnel Interviewed:	NSUS	J		

In left-hand column, note the element that was assessed and any secondary element that was assessed.

	Element #	ie Electrical Mnt. = most SEA
	4.3.1	ville) solvento). (ag. discharge
		no longer PCB's - "some" lead solder
	٥	Pevised PAF - due this year
,	4.332	Pa Opportunities (note worthy practice):
	6	newtralization of right lyme (regneration of water sign
. /		collect scrap metal > recycled.
		alkaline batteries
15.1	AW.	Peter Pohlot - alkaline batteries - no longer haz -
	111-1-	go Has Landfill - permission from local landal
	1.000	LPS Pecision Cleaner - surfactant based.
	, A.	Corrosives has photographic waste, ignifiables
. •	4.5.1 V	charts to review waste streams o determine
		what will be focus (waste classes) -
	4.3.3	0/7 - BBH+ agroroment Plan - (4)
•		ferrewed on line





AUDIT NOTES

Page $\frac{3}{2}$ of $\frac{5}{2}$

	Organization 1	Name: Brookhaven National Lab (FRS #69525 & 69528) – EMS/OSHMS Reassessment
	Auditor Name	
*	Personnel Inte	
	In left-hand co	olumn, note the element that was assessed and any secondary element that was assessed.
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ł		CA Man 7 ATS # 3567
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1	1/6/	Bachon ten not closed]- Jerst jed &
	451 2	you not closed - co cosol

Prepared by Andrew Ackerman

01/26/2007

B. Assure completion and documentation of at least one hour of observation time

each month for all personnel in the program. Report quarterly to the NSLS

Operations Council.

Responsibility: Ackerman

Due date:

Onhanced work planning

Committee

Safety Approval forms

Exp. Reviews by opsi
Op

4.4.3 - Safety moments - ISM 152 5 min

OTHER DEPARTMENT TARGETS FOR 2007

1) Evaluate the NSLS Lab Steward program for wet chemistry labs and revise responsibilities and authorities as needed.

Background: Management of the NSLS set-up laboratories is variable and expectations are not well defined. Review and revision of the set-up laboratory steward R2A2's is needed to define what is expected from personnel with that title. Emphasis on set-up laboratory work planning, housekeeping, and organized use through improvement of the laboratory steward program will reduce the risks associated with work in these locations.

a. Revise the R2A2 for NSLS Laboratory Stewards.

Responsibility: Ackerman Due date: 02/09/2007

b. Generate a list of the existing NSLS Laboratory Stewards with identification of assigned laboratory and email address.

Responsibility: Chmiel
Due date: 02/09/2007

c. Meet with the Laboratory Stewards at least four times throughout the year to discuss and emphasize requirements.

Responsibility: Chmiel Due date: 09/28/2007

d. Evaluate and report on compliance with the expectations defined in the revised Laboratory Steward R2A2's.

Responsibility: Chmiel
Due date: 06/01/2007

2) Evaluate the BNL Interim Procedure for handling nano-materials and bring the NSLS into compliance with the rules determined applicable.

Background: Work with nano-materials is progressing at the NSLS. The risks associated with these materials are not well defined. BNL, along with personnel from the other four national laboratories that are building nano-science centers, has issued an interim

B5 85

Prepared by Andrew Ackerman 01/26/2007

* Staff - Solvent (Chlorofor) Spreading (de minimo of 10 non forel to weather related delay - certanded - (noise)

4.3.3 OHS (CMS)

Responsibility: Weilandics

Due date: 05/01/2007

b. Complete representative solvent exposure IH sampling for three separate solvent

Responsibility: Weilandics

Due date:

05/01/2007

c. Issue noise and solvent exposure risk assessment reports that include the type of monitoring conducted, monitoring results, and recommendations for needed policy and practice changes.

Responsibility: Weilandics

Due date:

06/01/2007

d. Revise NSLS policies for working with solvents and in noise areas to address any recommendations that arise from exposure risk assessment reports.

Responsibility: Gmur

Due date:

08/01/2007

3) Accelerate implementation of NRTL program and complete inspection of 30 %of the current equipment inventory.

Background: Progress continues with inspection of electrical equipment at the NSLS for compliance with NRTL certification or EEI inspection. This target is aimed at keeping focus on that program and to assure that 30% of the department equipment is inspected by the end of FY 07.

a. Track inspection progress and provide quarterly reports on that progress.

Responsibility: Aloi

Due date:

Quarterly (starting 01/2007)

4) Implement a safety observation process for NSLS managers through the section head level.

Background: An important Laboratory initiative is to implement a safety observation program for all Level 1 and Level 2 managers. The NSLS has chosen to extend this requirement to the department section head level. STOP program -

a. Conduct training for NSLS management to the section head level in how to conduct and record observations.

Responsibility: Ackerman

Due date: 02/28/2007

review "STOP" 065-ventied - 3 HRS/mth for this Directors